INDIANA UTILITY REGULATORY COMMISSION 302 W. WASHINGTON STREET, SUITE E-306 INDIANAPOLIS, INDIANA 46204-2764

http://www.state.in.us/iurc/ Office: (317) 232-2701 Facsimile: (317) 232-6758

22 October 2004

To Whom It May Concern:

Enclosed is a copy of the Pipeline Safety Division's report on the gas explosion that occurred on April 3, 2004 at 3307 Lincoln Avenue, Evansville, Indiana. I hope this information is of assistance to you. Should you need any additional information, please feel free to contact me.

Sincerely,

Annmarie Robertson, Director

Annarie Robertson

Pipeline Safety Division

Pipeline Failure Investigation Report

Pipeline System: Vectren Energy Delivery of Indiana	Operator: Southern Indiana Gas & Electric Co.
Location: 20 N.W. Fourth St., Evansville, IN 47708-1724	Date of Occurrence: 4/03/04
Medium Released: Natural Gas	Quantity:
OPS Arrival Time & Date: 7:10pm CST 4/03/04 Investigation Responsibility: X State OPS	Total Damages \$: 605,000 NTSB Other
Company Reported Apparent Cause: Damage by Natural Forces Construction/Material Defect Construction/Material Defect Construction/Material Defect	Damage by Outside Force used by the Operator Inction X Other Unknown
Rupture? X Yes No	
Leak? X Yes No	
Fire? X Yes No	
Explosion?: X Yes No	
Evacuation?: X Yes No Number of Persons?	20 Area?
While changing out water meters in the area, the Evansville Water with a lid marked "Gas" assuming it provided access to the water of the valve within the valve box causing the failure of a 1/2" PE plast was not turned to the closed position after the line was damaged. To valve. Gas facilities had been replaced in the area in June of 2001, athrough which to install the gas new facilities. KLP Construction Conditions and Electric Company d/b/a Vectren Energy Delivery project. The shut-off valve that had served as the original valve, the operational when the replacement was completed in 2001. Water U damage had occurred to gas facilities. In response, SIGECO dispate of the damaged gas service line. The employee attempted to shut the stated by using a "Trac-it" gas detector that it gave indication the cleared when held around the meter set at the house foundation. A access the 1/2" service line and repair the damage to it. Upon arrive gas curb valve off, shut the gas off by squeezing off the 1/2" plastic facilities. Although no CGI (Combustible Gas Indicator) instrument determine LEL, one of the SIGECO crew members attempted to re 3307 Lincoln Ave. The natural gas present in the structure ignited	thut-off valve. A Water Utility employee then turned ic service line serving 3307 Lincoln Ave. The valve he gas service line had been inserted through the and abandoned facilities were used as conduits ompany was the contractor hired by Southern of Indiana, Inc (SIGECO) for that replacement rough which the plasic replacement line ran, was left tility personnel alerted SIGECO to the fact the ched a service employee (first responder) to the scene e gas valve off, but was unable to do so. The employee gas was venting from the valve box. The instrument SIGECO two-man crew was then dispatched to all at the damaged gas line, the two-man crew shut the upstream of the valve, and repaired the damaged t was used inside or outside the above address to -light appliances to finalize the service restoration to causing an explosion. The resident of the home and a
visitor were present in the home at the time of the explosion, and su the re-light was burned and received in-patient treatment.	ffered fatal injuries. The serviceman who performed
Region/State: Central/Indiana	Reviewed by:
Principle Investigator: Michael A. Orr	Title:
Date: August 24, 2004	Date:

Date: 4/03/04 Time Detected: Unknown How Located: Water Utility representative smelled and heard gas blo NRC Report #: (Attach Report) Time Reported to NRC: 12:59 PM CST Type of Pipeline: Gas Distribution Gas Transmission LP Interstate Gas Municipal Intrastate Gas Nector Gas - High H ₂ S Pipeline Configuration (Regulator Station, Pump Station, Pipeline, etc.): Distribution Pipeline Owner: Vectren Energy Delivery of Indiana, Inc. Operator: Contact: Rick Slagle Address: 1 N. Main St.	ated: Vectren arrival 8:29AM CST
Address or M.P. on Pipeline: 3307 Lincoln Ave. Date: 4/03/04 Time Detected: Unknown How Located: Water Utility representative smelled and heard gas blo NRC Report #: (Attach Report) Time Reported to NRC: 717824 12:59 PM CST Type of Pipeline: Gas Distribution Gas Transmission LP Interstate Gas Municipal Municipal Master Meter Offshore Gas Offshore Gas - High H ₂ S Pipeline Configuration (Regulator Station, Pump Station, Pipeline, etc.): Distribution Pipeline Owner: Vectren Energy Delivery of Indiana, Inc. Contact: Rick Slagle Address: 1 N. Main St. Title: V	ailure: Unknown nted: Vectren arrival 8:29AM CST ving Reported by: Rick Slagle LNG nterstate Liquid LNG
Date: 4/03/04 Time Detected: Unknown How Located: Water Utility representative smelled and heard gas blo NRC Report #: (Attach Report) Time Reported to NRC: 12:59 PM CST Type of Pipeline: Gas Distribution Gas Transmission LP Interstate Gas Municipal Intrastate Gas Nector Gas - High H ₂ S Pipeline Configuration (Regulator Station, Pump Station, Pipeline, etc.): Distribution Pipeline Owner: Vectren Energy Delivery of Indiana, Inc. Operator: Contact: Rick Slagle Address: 1 N. Main St.	ailure: Unknown nted: Vectren arrival 8:29AM CST ving Reported by: Rick Slagle LNG nterstate Liquid LNG
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Time Detected: Unknown How Located: Water Utility representative smelled and heard gas blo NRC Report #: (Attach Report) Time Reported to NRC: 12:59 PM CST Type of Pipeline: Gas Distribution Gas Transmission LP Interstate Gas Municipal Intrastate Gas Municipal Master Meter Offshore Gas Offshore Gas Offshore Gas - High H ₂ S Pipeline Configuration (Regulator Station, Pump Station, Pipeline, etc.): Distribution Pipeline Owner: Vectren Energy Delivery of Indiana, Inc. Operator: Contact: Rick Slagle Address: 1 N. Main St.	Reported by: Rick Slagle LNG nterstate Liquid LNG Facility
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NRC Report #: (Attach Report) Time Reported to NRC: 717824 Type of Pipeline: Gas Distribution Gas Transmission LP Interstate Gas Municipal Intrastate Gas Nater Meter Offshore Gas - High H ₂ S Pipeline Configuration (Regulator Station, Pump Station, Pipeline, etc.): Distribution Pipeline Operator Operator: Contact: Rick Slagle Address: 1 N. Main St. Title: V	Reported by: Rick Slagle LNG Iterstate Liquid LNG Facility
Type of Pipeline: Gas Distribution Gas Transmission LP Interstate Gas Municipal Intrastate Gas X Public Utility Jurisdictional Gas Gathering Offshore Gas Offshore Gas Offshore Gas - High H ₂ S Pipeline Configuration (Regulator Station, Pump Station, Pipeline, etc.): Distribution Pipeline Contact: Vectren Energy Delivery of Indiana, Inc. Contact: Rick Slagle Address: 1 N. Main St. Title: V	Rick Slagle LNG Interstate Liquid LNG Facility
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Type of Pipeline: Gas Distribution Gas Transmission IP Interstate Gas Municipal Intrastate Gas Intrastate Gas Weblic Utility Intrastate Gas Offshore Gas Offshore Gas - High H ₂ S Pipeline Configuration (Regulator Station, Pump Station, Pipeline, etc.): Distribution Pipeline Operator/Ownex Inform Owner: Vectren Energy Delivery of Indiana, Inc. Contact: Rick Slagle Address: 1 N. Main St.	Iazardous Liquid LNG Interstate Liquid LNG Facility
Gas Distribution LP	nterstate Liquid LNG Facility
LP	nterstate Liquid LNG Facility
Municipal X Public Utility Jurisdictional Gas Gathering Offshore Gas Offshore Gas - High H ₂ S Pipeline Configuration (Regulator Station, Pump Station, Pipeline, etc.): Distribution Pipeline Operator: Owner: Vectren Energy Delivery of Indiana, Inc. Contact: Rick Slagle Address: 1 N. Main St. Intrastate Gas Opfshore Gas - High H ₂ S Operator: Operator: Operator: Company Address: 1 N. Main St.	
X Public Utility	ntrastate Liquid
Master Meter Offshore Gas Offshore Gas - High H ₂ S Pipeline Configuration (Regulator Station, Pump Station, Pipeline, etc.): Distribution Pipeline Operator Owner Inform Owner: Vectren Energy Delivery of Indiana, Inc. Contact: Rick Slagle Company Address: 1 N. Main St. Title: V	
Pipeline Configuration (Regulator Station, Pump Station, Pipeline, etc.): Distribution Pipeline Operator Owner Inform Owner: Vectren Energy Delivery of Indiana, Inc. Contact: Rick Slagle Address: 1 N. Main St. Title: V	Offshore Liquid
Pipeline Configuration (Regulator Station, Pump Station, Pipeline, etc.): Distribution Pipeline Operator Owner: Vectren Energy Delivery of Indiana, Inc. Contact: Rick Slagle Address: 1 N. Main St. Title: V	urisdictional Liquid Gathering
Distribution Pipeline Operator Owner Inform Owner: Vectren Energy Delivery of Indiana, Inc. Contact: Rick Slagle Address: 1 N. Main St. Title: V	CO ₂
Operator Owner Inform Owner: Vectren Energy Delivery of Indiana, Inc. Contact: Rick Slagle Address: 1 N. Main St. Title: V	
Owner: Vectren Energy Delivery of Indiana, Inc. Operator: Contact: Rick Slagle Company Address: 1 N. Main St. Title: V	
Owner: Vectren Energy Delivery of Indiana, Inc. Operator: Contact: Rick Slagle Company Address: 1 N. Main St. Title: V	
Owner: Vectren Energy Delivery of Indiana, Inc. Operator: Contact: Rick Slagle Company Address: 1 N. Main St. Title: V	· ·
Contact: Rick Slagle Company Address: 1 N. Main St. Title: V	anon algebra services and the services of the services of
Address: 1 N. Main St. Title: V	Southern Indiana Gas & Electric Company
DO Por 200	ice President Energy Delivery
]	1 N. Main St.
City: Evansville State: IN	P.O. Box 209
Phone No.: (812) 491-4611 Fax No.: (812) 491-4504 City: E	ansville State: IN
DRUG TESTING	∐ N/A
Contact: Bill Brown Phone No.	.: (812) 491-4160
garages and the control of the contr	A property of the second secon
1 · · · · · · · · · · · · · · · · · · ·	Property Damage \$: 600,000
Amount Recovered: Associate	1 Damages ⁽²⁾ \$: 5,000
Estimated Amount \$: Minimal	· ·
Description of Property Damage:	
Customers out of Service: X Yes No No	
Suppliers out of Service: Yes No No	umber: <u>2</u>

⁽¹⁾ Initial Volume Lost or Spilled

⁽²⁾ Including Cleanup Cost

			10	alities and						
Fatalities:	TV V					_				
i	==		No	Company:		_ Contr	-	0	Public:	2
Injuries - Hospitalization:			No	Company:		_ Contra	-	0	Public:	0
Injuries - Non-Hospitalization:	<u> </u>		No	Company:	0	Contra	-	0	Public:	3
Total Injuries (including Non-I	iospitali	zation):		Company:	1	Contra		0	Public:	5
Name		3.675				Yrs w/	Yrs		-	
Daisy P. Hardy	Age	M/F		Job Functi	on	Comp.	Exp.		Type of In	jury
Josie Williams	89	F	Public			N/A	N/A	Fatality	··	
Mark Rexing	65 31	F M	Public			N/A	N/A	Fatality		
Marvin Maxberry	80	M	Helper Public			7	7	-	Smoke I	nhalation
Virginia Maxberry	80	F	Public			N/A N/A	N/A	 	nhalation	
Dave Ellington	35	M	Public			N/A N/A	N/A N/A		nhalation	
8		172	1 upit	:		IVA	IN/A	Smoke	nhalation	
				alai Tesii						
West the state of									100	AV/1
Were all employees that could the 32 hour time frame for all countries.	have con	tributed 1 28?	to the inc	ndent, Post	Accident t	ested with	in the 2	hour time	frame for	alcohol or
X Yes No	and drug	50.		-						
	1 7	ime	T			D.	esults	1		
Job Function	1	Test	l.	Locati	ion	Pos.			T CD	
First Responder		military	St M	ary's Occu			Neg.		Type of D	rug
Crew Member		military		ary's Occu			X	Results		•
			100,100	ary's occu	p. H.Curch		A	Results	eceived	
			†				-	-		· · · · · · · · · · · · · · · · · · ·
		***************************************		-			1			
			<u>-</u>			<u></u>	_ 	1	• • • • • • • • • • • • • • • • • • • •	
			Si	siem Dese	retion -					
Describe the Operator's System	: 60 Psi	g MAOI	A CONTRACTOR OF THE PARTY OF TH							
	1					2				
							··········			· · · · · · · · · · · · · · · · · · ·
		Pipi	Failur	e Descript	iom					The North
Length of Failure (inches, feet,	miles).									
Position (Top, Bottom, include			ximately		agrintian at	FEather (<u> </u>			ρ
Entire circumference	position	on pipe,	o O cioci	k): ρ De Te	scription of	ranure (Corrosic	on Gouge,	Seam Split): ρ
	•	•								
								•		
						÷		•	•	
									,	
Laboratory Analysis: Y	es X	No	,			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · ·			
Performed by: N/A	لت	-		•				•		
Preservation of Failed Section of	r Compo	nent: [Yes	X No.						
If Yes - Method:				110.		*				*
In Custody of: See attachme	ent #16 f	or staten	ent held	ow.						
Develop a sketch of the area inc					stress induc	ing factor	s nine o	onfimenti	ne etc. D	or Uolo
Test Survey Plot should be outli	ned with	concentr	ations at	test points.	Direction	of Flow.	o, prbo o	omiģinali	, otc. D	ai 11016
			-,			<u>-</u>				

Section 1997 Section 1997	onen Lailure	Descri	viion - Alexandria		X X N/A	
Component Failed:			·			
Manufacturer:		Mod				
Pressure Rating:	<u> </u>	Size:				
Other (Breakout Tank, Underground Storage):						
Maria DE 2406	A Pipe Dua				N/4	
Material: PE 2406	· · · · · · · · · · · · · · · · · · ·			90 inch/7/0		
Diameter (O.D.): 1/2-inch CTS SMYS: N/A			llation Date: June 27			
Longitudinal Seam: N/A		 	ıfacturer: Driscopipe			
Pipe Specifications (API 5L, ASTM A53, etc.):	A CORRESPONDE		of Coating: N/A			
Tipe Specifications (Art 3L, ASTM A33, etc.):	ASTM D251.	3				
	Joining				X NA	
Туре:		Proce	dure:			
NDT Method:		Inspe	cted: Yes 1	Vo		
Pressure (a)	Lince of Fadur	$e(\hat{a},F)$	allure Suc	the second	N/4L	
Pressure @ Failure Site: 55 PSIG		Eleva	tion @ Failure Site:	N/A		
Pressure Readings @	Various Locatio	ns:		·	m Failure Site	
Location/M.P./Station#	Pressure		Elevation	Upstream	Downstream	
	·					
· · · · · · · · · · · · · · · · · · ·		نــــــــ				
	eam Pump Sta	ion D	ülő		X NA	
Type of Product:			ravity:			
Specific Gravity:		Flow 1				
Pressure @ Time of Failure ⁽³⁾ :		Distance to Failure Site:				
High Pressure Set Point:		Low P	ressure Set Point:			
					,	
	i Compressor S	tation	Data Control of		X AA	
Specific Gravity:	·	Flow I	Rate:			
Pressure @ Time of Failure ⁽³⁾ :		Distance to Failure Site:				
High Pressure Set Point:		Low P	ressure Set Point:			
	perating Press	ure			2/48	
Max. Allowable Operating Pressure: 60 Psig		Detern	nination of MAOP: 1	00 Psig air pressı	ıre test	
Actual Operating Pressure: 55 Psig		•	: ·	G F. 3000	,	
Method of Over Pressure Protection: Relief					·	
Relief Valve Set Point: N/A	1	Capaci	ty Adequate?:	Yes No		
(3) Obtain Event Logs and Pressure Recording Charts	•		- <u>- La</u>	<u> </u>		

		Imegray Lest Afra	Karing Makesake da		
Pressure Test Conduc	ted in place? (Conduc	cted on Failed Compo	nents or Associated Pip	oing): Yes	X No
If NO, Tested after re	moval?:		Yes	X No	
Method?:	· · · · · · · · · · · · · · · · · · ·	,			
Describe any failur	es during the test.				
				•	
		Pressure Los Hi	sinv		**************************************
11 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	Date	Test Medium	Pressure	Duration	% SMYS
Installation:	June 27, 2001	Air	100 Psig	10 minutes	N/A
Last: Other:					
None. 49 CFR 192 of disconnection to	the service line valve	ervice line temporarile in the same manner e test the service line a	as a new service line,	before reconnecting	
		water Conditions (a)			YAR
Condition of and type basement wall at loc		re Site (Color, Wet, Dr	y, Frost Depth): Wet	, Clay soil saturated	l with odorant at
Type of Backfill (Size	e and Description): I	N/A			
Type of Water (Salt,	Brackish): N/A		Water Analysis ⁽⁴⁾ :	Yes X No	
(4) Attach Copy of Water A	Analysis Report	I	· · · · · · · · · · · · · · · · · · ·		

Leaving the Component of the Component of Component of the Component of th	enelexamination (3) XVII
External Corrosion?: Yes No	Coating Condition (Disbonded, Non-existent):
Description of Corrosion:	ρ
Description of Failure surface (Gouges, Arc Burns, Wrinkle I of Origin):	Bends, Cracks, Stress Cracks, Chevrons, Fracture Mode, Point
Above Ground: Yes No	Buried: Yes No ρ
Stress Inducing Factors:	Depth of Cover: ρ
	1
Maria Calhodic Proje	van de
P/S (Surface):	P/S (Interface):
Soil Resistivity: pH:	Date of Installation:
Method of Protection?:	3 12333333
Did the Operator have knowledge of Corrosion before the Incide	ent?: Yes No
How Discovered? (Close Interval Survey, Instrumented Pig, Ann	nual Survey, Rectifier Readings):
Thernal Pipe or Compone	ent Examination
Type of Inhibitors:	
Type of fundators.	Testing: Yes No
Results (Coupon Test, Corrosion resistance Probe):	
Description of Failure surface (MIC, Pitting, Wall Thinning,	Chevrons, Fracture Mode, Point of Origin):
Cleaning Pig Program: Yes No	Gas and/or Liquid Analysis: Yes No
Results of Gas and/or Liquid Analysis ⁽⁵⁾ :	
Internal Inspection Survey: Yes No	Results ⁽⁶⁾ :
I I lid the Unerator have knowledge of Corrosion before the Incide	ont') I I Vac I I Na
Did the Operator have knowledge of Corrosion before the Incide How Discovered? (Instrumented Pig, Coupon Testing):	ent?: Yes No

⁽⁵⁾ Attach Copy of Gas and/or Liquid Analysis Report

⁽⁶⁾ Attach Copy of Internal Inspection Survey Report

Market Consideration of the Co	Damage suggestion after an engineer of Extract.
Responsible Party: Evansville Water Utility (EA2)	Telephone No.: (812) 421-2120
Address: 1931 Allens Lane, Evansville, Indiana 47720	
Work Being Performed: Water meter replacement	
Equipment Involved: Curb Valve Key	ρ Called One Call System?: Yes X No
One Call Name: IUPPS	One Call Report # ⁽⁷⁾ : N/A
Notice Date: N/A	Time: N/A
Response Date: N/A	Time: N/A
Details of Response:	
No excavation. Access to Gas facilities was gained throug	h Gas Valve box with lid clearly marked "GAS."
W. I. S. W.	
Was Location Marked According to Procedures: Ye	
Pipeline Marking Type: N/A	ρ Location: N/A ρ
State Law Damage Prevention Program Followed?:	Yes No No State Law
Notice Required: Yes X No	Response Required: Yes X No
Was Operator Member of State One Call?: X Yes No	
Is OSHA Notification Required?: Yes X No	1 10 110
Namul L	
Description (Earthquake, Tornado, Flooding, Erosion):	$\mathcal{X} = \mathcal{X} = \mathcal{X} = \mathcal{X} = \mathcal{X} = \mathcal{X}$
, , , , , , , , , , , , , , , , , , , ,	
Failure (so)	anones de la companya
Squeeze Off/Stopple Location and Method: Old Service Va	lve Operation and Squeeze Off PE Service Line
Valve Closed - Upstream:	I.D.:
Time:	M.P.:
Valve Closed - Downstream:	I.D.:
Time:	M.P.:
Pipeline Shutdown Method: X Manual Autor	natic SCADA Controller ESD
Failed Section Bypassed or Isolated: Isolated	
Performed By: Durbin/Rexing	Valve Spacing:
(7) Attach Copy of One Call Report	

Odorization	
Gas Odorized: X Yes No	Concentration of Odorant (Post Incident at Failure Site):
Method of Determination: Sniff and DTEX	% LEL: % Gas In Air: .49 %
	Time Taken: 3:35 PM CST
Was Odorizer Working Prior to the Incident:	Type of Odorizer (Wick, By-Pass): Injection
X Yes No	
Odorant Manufacturer: Natural Gas Odorizing	Type of Odorant: RP Captan (V)
Model:	
Amount Injected:	Monitoring Interval (Weekly): Daily-Sniff/ Monthly-Instr.
Odorization History (Leaks Complaints, Low Odorant Levels, No indication of abnormalities. See attachment #8(a) for Concentration of Odorant at site P See attachment #8(b) for Concentration of Odorant for SIGMarch 30, 2004.	ost Incident using DTEX instrument
<u>.</u>	
and the second of the second o	ion_{Σ}
Temperature:	Wind (Direction & Speed):
Climate (Snow, Rain):	Humidity:
Was Incident preceded by a rapid weather change: Yes	
Weather Conditions Prior to Incident (Cloud Cover, Ceiling Heig	
Gas Migration St	invery known as the companying and the DVA's.
Bar Hole Test of Area: X Yes No	Equipment Used: GMI Gasurveyor
Method of Survey (Foundations, Curbs, Manholes, Driveways, M	
Mains, Services, Manholes	P
Environment Sensitiv	
Location (Nearest Rivers, Body of Water, Marshlands, Wildlife R	efuge, City Water Supplies that could be or were affected p
by the medium loss.):	
OPA Control Plant 1110 Plant File	
OPA Contingency Plan Available?: Yes No	Followed?: Yes No
Class Location	N/L^2
Class: 3	Determination: Population Density
Odorization Required?: X Yes No	
(8) Plot on Site Description Page	

Maps & Rec	ods the control of the control of the NA
Are Maps and Records Current? (9): X Yes No	
Leak Survey L	isory — A NA
Leak Survey History (Trend Analysis, Leak Plots):	
No leaks in area since installation of new facilities in June	of 2001.
Pipeline Operatio	uHistory
Description (Repair or Leak Reports, Exposed Pipe Reports)	
No operational issues since installation of PE system in Jun	é of 2001.
Did a Safety Related Condition Exist Prior to Failure?:	Yes X No Reported?: Yes No
Unaccounted For Gas:	Tes And Reported: Tes Ino
Over & Short/Line Balance (24 hr., Weekly, Monthly/Trend):	
Operator Contrac	ocknor with the second of the second
Name: Williamson, Dennis / Rexing, Mark	Job Function: First Responder / Crew Member
Title: Unknown	Years of Experience: 20yrs 6mo. / 7yrs 6mo.
Training (Type of Training, Background): Operator Qualifi	cation and Emergency Response Plan Training
Type of Error (Inadvertent Operation of a Valve): Not follow	
Procedures that are required: See Addendum 9(a) on following	ng page.
Actions that were taken: Not following ERP checklist resulting	y in a natural gas atmosphere inside 3307 Lincoln Ave between
LEL and UEL.	5 in a matarax Bao admosphoro hastao 3307 Emicom 7170. between
Pre-Job Meeting (Construction, Maintenance, Blow Down, Purp	ging, Isolation): Unknown
Prevention of Accidental Ignition (Tag & Lock Out, Hot Weld)	
Procedures conducted for Accidental Ignition: Lack of use of	
inside residence of 3307 Lincoln Ave.	
Was a Company Inspector on the Job?: Yes X	No
Was an Inspection conducted on this portion of the Job?:	Yes X No
Additional Actions (Contributing factors may include numbe	r of hours at work prior to failure or time of day work being
conducted): See Addendum 9(b) on following two pages.	
	•
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<u>Procedures that are required:</u> <u>Addendum 9(a)</u>

Follow its own ERP 4.02 Emergency Response Procedures Checklist which includes maintaining evacuation of area.

49 CFR 192 requirements:

49 CFR 192.605(a) General. Each operator shall prepare and follow for each pipeline, a manual of written procedures for conducting operations and maintenance activities and emergency response.

49 CFR 192.13(c) Each operator shall maintain, modify as appropriate, and follow the plans, procedures, and programs that it is required to establish under this part.

49 CFR 192.615(b)(2) Each operator shall train the appropriate operating personnel to assure that they are knowledgeable of the emergency procedures and verify that the training is effective.

Additional Actions: Addendum 9(b)

SIGECO has experienced other instances of the Water Utility turning gas valves causing gas leakage prior to this incident. SIGECO has not introduced the use of Excess Flow Valves as a part of all new residential service or re-newed residential service installation nor has they rendered old valves inoperable prior to the incident. See Attachment #9 for Invoice and Facilities Damage Reports charged to Evansville Water for prior non-explosive valve turning instances.

49 CFR and 170 IAC requirements:

49 CFR 192.617 Each operator shall establish procedures for analyzing accidents and failures, including the selection of samples of the failed facility or equipment for laboratory examination, where appropriate, for the purpose of determining the causes of the failure and minimizing the possibility of a recurrence.

49 CFR 192.613(a) Each operator shall have a procedure for continuing surveillance of its facilities to determine and take appropriate action concerning changes in class location, failures, leakage history, corrosion, substantial changes in cathodic protection requirements, and other unusual operating and maintenance conditions.

(continued on next page)

Addendum 9(b) (continued)

49 CFR 192.703 General.

- (a) No person may operate a segment of pipeline, unless it is maintained in accordance with this subpart.
- (b) Each segment of pipeline that becomes unsafe must be replaced, repaired, or removed from service.
 - (c) Hazardous leaks must be repaired promptly.

49 CFR 192.725 Each disconnected service line must be tested in the same manner as a new service line, before being reinstated.

170 IAC 5-3-1

Sec. 1. General.

- (a) In accordance with Indiana Public Law 84, Acts of 1971 (IC 1971, 8-1-22.5) each intrastate gas pipeline operator, having gas facilities within the State of Indiana, shall:
 - (1) Construct, operate and maintain its facilities in accordance with Federal safety standards applicable to the transportation of natural and other gas and for pipeline facilities used in this transportation established and in effect, from time to time, pursuant to the Natural Gas Pipeline Safety Act of 1968 (Public Law 90-481, 49 U.S.C., 1671 et seq.) as the same may be amended, with the following supplements contained herein:
 - (2) Comply with any other code, standard or regulation contained herein, insofar as any code, standard or regulation is herein made applicable, and
 - (3) Be governed, after due notice, by any deletion, addition, revision or amendment thereof.

	Opzalov/Comiacie			
Training Procedures: See Atta	chment #10(a)			
Operation Procedures:				
Controller Activities:				·
Name	Title	Years Experience	Hours on Duty Prior to Failure	Shift
				Sink
			·	
		·		
Alarm Parameters:		·		
High/Low Pressure Shutdown:				
Flow Rate:				,
Procedures for Clearing Alarms:				
Type of Alarm:				
Company Response Procedures for	Abnormal Operations:			
Over/Short Line Balance Procedure	es:			
Frequency of Over/Short Line Bala	nce:			
Additional Actions:		 		

Additional Actions Taken by the Operators

Make notes regarding the emergency and Failure Investigation Procedures (Pressure reduction, Reinforced Squeeze Off, Clean Up, Use of Evacuators, Line Purging, closing Additional Valves, Double Block and Bleed, Continue Operating downstream Pumps):

See Attachment #10(b) SIGECO Failure Investigation - Vectren Emergency Response Procedures (Pre-incident) dated 3-28-03.

See Attchment #10(c) SIGECO Post-incident Action Plan.

Hioo Docanonaian 602

Overall Area from best possible view.

Pictures from the four points of the compass.

Failed Component.

Operator Actions.

Damages in Area. Address Markings.

Photo No.	Description	Roll	Photo		Roll
	Description	No.	No.	Description	No.
1	Incident site facing South from Lincoln		1		
2	House East of incident site		2		
3	Incident site facing Southwest		3		
4	Closer to Incident site facing Southwest		4		
5	Incident site facing West		5		
6	Incident site facing Northwest		6		
7	Incident site facing North		7		
8	House West of Incident site		8		
9	Site and house East of site facing Northeast		9		l
10	Southwest corner of site facing Northeast		10		
11	Garage south of site		11		
12	Incident site facing Southeast		12		
13	Service line terminated to house west		13		
14	Water valve curb box		14		
15	PE Main at edge of Lincoln Ave.		15		
16	Meter set at incident site		16		
17	inside piping at 3307 Lincoln Ave.		17		
18	Basement and Chimney at 3307 Lincoln		18		
19	Steel pipe used for insert at 3307 Lincoln		19		
20	Meter set at incident site		20		
21	Meter set and piping after removal	·	21		
22	Close-up Meter to 3307 Lincoln		22		
23	Retired Pipe at basement wall		23		
24			24		
25		:	25		
26			26		
27			27		
28			28		
29			29		
30			30		
31			31		·
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33			33		
34			34		
35			35		

Type of Camera: Digital Nikon Coolpix 2100

Film ASA:

Video Counter Log⁽¹⁰⁾:

(10) Attach Copy of Video Counter Log

	Allenana.	Information S	Our constant and a second seco
Pho	ne Number		Name
Police: (812) 436-7910		Contact:	Tony Walker
Fire Dept.: (812) 435-6235		Contact:	Jesse Storey C.F.I.
State Fire Marshall:		Contact:	
State Agency: (317) 232-2717		Contact:	Annmarie Robertson, Director, Pipeline Safety
NTSB: (202) 314-6000		Contact:	Rod Dyck
EPA:	•	Contact:	
FBI:	•	Contact:	
ATF:		Contact:	
OSHA: (317) 232-1987		Contact:	Tim Crouse
Insurance Co.: (765) 463-8586		Contact:	Darcy Smith, State Farm Insurance
FRA:		Contact:	
MMS:	***	Contact:	
Television:		Contact:	
Televison		Contact:	
Newspaper:		· Contact:	
Other:		Contact:	

	Persons Interviewed (************************************	
Name	Title	Phone Number
Jesse Storey, C.F.I.	Evansville Fire Dept. Investigator	(812) 435-6235
Gerry S. Mang, CFEI	American Consulting, Inc.	(317) 547-5580
Dennis Williamson	SIGECO, First Responder	(017) 017 3300
David Durbin	SIGECO, Crew Member	
Mark Rexing	SIGECO, Crew Member	
Raymond Reed	Evansville Water Employee	
Brad Haskins	Evansville Water Employee	

Sequence of ev	ents prior, during and after the in	incident by time. (Consider the events of all parties involved in the incident, Fi	
Department and	d Police reports. Operator Logs	and other government agencies.)	re
Time	Trans. Dogo o		
Time		Event	•
7.250-	The		

7:35am	Evansville Water Employees arrive at 3307 Lincoln Ave.
7:40am	Evansville Water Employee causes leak by turning valve marked "GAS."
7:42am	SIGECO receives call reporting leak.
7:48am	SIGECO employee (First Responder) dispatched to site of damaged valve.
8:29am	Arrival time of SIGECO personnel to site of damaged valve.
10:55am	Approximate time leak was repaired.
11:10am	Time of incident.

See Evansville Fire Report Attachment #13

A Sala	in the second	La property and investigation.	Contact Log 25
Time	Date	Name	Description
19:10	4/03/04	Rick Slagle	Vectren Energy Delivery of Indiana, Inc.
13:00	4/15/04	Dennis Williamson	SIGECO First Responder
13:00	4/15/04	David Durbin	SIGECO Crew Member
15:00	4/15/04	James G. Cameron, Gen Mgr	Evansville Water
08:00	4/16/04	Raymond Reed	Evansville Water Employee
08:00	4/16/04	Brad Haskins	Evansville Water Employe
09:00	5/13/04	Mark Rexing	SIGECO Crew Member
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a salah saga da laki ya	Failure Investigation Documentation Log				
Operator:	Unit #: CPF #:	D	Date:		
Appendix		Date	FOIA		
Number	Documentation Description	Received	Yes N		
Exhibit#8(a)	Incident site Odorant Concentration using DTEX instrument (post)	6/21/04			
Exhibit#8(b)	SIGECO Area Odorant Concentration using DTEX 3/26-30/04	6/21/04			
Exhibit#9	Invoices and FDR Reports to Evansville Water from SIGECO	5/12/04			
Exhibit#10(a)	Operator Qualification Reports for SIGECO Employees involved	4/15/04			
Exhibit#10(b) Exhibit#10(c)	Vectren Emergency Response Procedures	8/23/04			
Exhibit#13	SIGECO Post-Incident "Action Plan"	6/21/04			
	Evansville Fire Department Report	6/02/04			
EARIOIC#10	Post-Incident Gas Reading and Bar-Hole Map w/ Measurements	4/15/04			
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Stie Desemption

Develop a sketch of the area including distances from roads, houses, stress inducing factors, pipe configurations, etc.. Bar Hole Test Survey Plot should be outlined with concentrations at test points. Photos should be taken from all angles with each photo documented. Additional areas may be needed in any area of this guideline.

See Exhibit # 16

Exhibit #8(a)

Test #: Test Start Date: Test Start Time: TDL Result: RDL Result: Test Time (Sec):	00001 04-03-04 15:35:30 0.12% 0.49% 306	3319LINCOLN <blank> <blank> <blank> <blank> Altitude (ft): 0</blank></blank></blank></blank>	<blank></blank>	User: JOHN BEAR Notes: DTEX Model: Serial Number: Test Error Code: Test Temp (C):	DX1000G 00267 ** 16
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Test #: Test Start Date: Test Start Time: TDL Result: RDL Result: Test Time (Sec):	00002 04-03-04 15:48:11 0.12% 0.39% 17	3201LINCOLN <blank> <blank> <blank> <blank> Altitude (ff): 0</blank></blank></blank></blank>	<blank></blank>	User: JOHN BEAR Notes: DTEX Model: Serial Number: Test Error Code: Test Temp (C):	DX1000G 00267 ** 17
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Exhibit #8(b)

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Test #:	00001	GRIFFIN		Hoose IEEE OALTZALA	
Test Start Date:				User: JEFF SALTZMA	AN .
	03-26-04	<blank></blank>		Notes:	
Test Start Time:	10:35:42				
		<blank></blank>		DTEX Model:	DX1000G
TDL Result:	0.00%	GRIFFIN		•	
				Serial Number:	00266
RDL Result:	0.12%	INDIANA	<blank></blank>	Took Error Code	**
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Test #:	00002	GRIFFIN			
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	03-26-04	<blank></blank>		Notes:	
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				DTEX Model:	DX1000G
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RDL Result:	0.31%	INDIANA	dDI. III		00266
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Test #:	00000	ET DD 4446**			
	00003	FT BRANCH		User: JEFF SALTZMA	N
Test Start Date:	03-26-04	<blank></blank>	•		1.4
				Notes:	
Test Start Time:	12:08:44	<blank></blank>		DTEX Model:	DV40000
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•		FT BRANCH	•	Serial Number:	00266
RDL Result:	0.04%	INDIANA	<blank></blank>		
Toot Time (Cook			-Diank-	Test Error Code:	**
Test Time (Sec):	64	Altitude (ft): 500		Test Temp (C):	22
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Test #:	00004	FT BRANCH			
Test Start Date:				User: JEFF SALTZMAN	4 .
	03-26-04	<blank></blank>		Notes:	
Test Start Time:	12:10:16	<blank></blank>			
				DTEX Model:	DX1000G
TDL Result:	0.04%	FT BRANCH			
RDL Result:				Serial Number:	00266
	0.32%	INDIANA	<blank></blank>	Test Error Code:	**
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Test Start Time:				Notes:	
rest start time:	12:19:59	<blank></blank>		DTEX Model:	DX1000G
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				Serial Number:	00266
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				DTEX Model:	DX1000G
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	0.25%	INDIANA	<blank></blank>	Test Error Code:	**
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Test #:	00007	10101-			
	00007	HWY 57		User: JEFF SALTZMAN	
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			<blank></blank>		DTEX Model:	DX1000G
TDL Result:		0.03%	FT BRANCH		Serial Number:	00266
RDL Result:		0.43%	INDIANA	<blank></blank>	Test Error Code:	**
Test Time (Sec):		18	Altitude (ft): 500		Test Temp (C):	24
111			(1)		rose romp (O).	24
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Test #:		00009	HWY 261			
Test Start Date:		03-26-04			User: JEFF SALTZMAI	4
Test Start Time:			<blank></blank>		Notes:	
		14:16:20	<blank></blank>		DTEX Model:	DX1000G
TDL Result:		0.00%	NEWBURGH		Serial Number:	00266
RDL Result:		0.00%	INDIANA	23345	Test Error Code:	64
Test Time (Sec):		21	Altitude (ft): 500	• •	Test Temp (C):	24
				·	root romp (o):	24
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Test #:		00010	ELBERFELD			_
Test Start Date:		03-26-04		•	User: JEFF SALTZMAN	4
			<blank></blank>		Notes:	
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TDL Result:		0.02%	EVANSVILLE		Serial Number:	00266
RDL Result:		0.22%	INDIANA	<blank></blank>	Test Error Code:	**
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Test#:		00011	FIVE DOLLAR RD		Hara termous managements	_
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		10:47:36	<blank></blank>	•	DTEX Model:	DX1000G
TDL Result:		0.01%	EVANSVILLE		Serial Number:	00266
RDL Result:		0.21%	INDIANA	<blank></blank>	Test Error Code:	**
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		11:01:29	<blank></blank>		DTEX Model:	DX1000G
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Test Start Date:		03-29-04	<blank></blank>		Notes:	
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TDL Result:		0.04%	EVANSVILLE		Serial Number:	
RDL Result:		0.46%	INDIANA	<blank></blank>		00266
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Test #:	00015	OLABERONT.	<i>/</i> ·		
		CLAREMONT		User: JEFF SALTZMA	N
Test Start Date:	03-29-04	<blank></blank>		Notes:	
Test Start Time:	11:56:50	<blank></blank>		DTEX Model:	DV40000
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Test #:	00016	INGLE		User: JEFF SALTZMAI	N .
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Test #:	00017	PARRETT		User: JEFF SALTZMAN	1
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Test Start Time:	12:26:12	<blank></blank>			
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	0.38%	INDIANA	<blank></blank>	Test Error Code:	**
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		FULLACK		User: JEFF SALTZMAI	N
Test Start Date:	03-29-04	<blank></blank>		Notes:	
Test Start Time:	14:23:42	<blank></blank>		DTEX Model:	DX1000G
TDL Result:	0.02%	EVANSVILLE			
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	0.36%	INDIANA	<blank></blank>	Test Error Code:	**
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RDL Result:	0.51%	INDIANA	<blank></blank>		**
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rest time (Sec).	21	Altitude (ft): 500		Test Temp (C):	24
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Test #:	00026	MORGAN	V		•
				User: JEFF SALTZMAN	
Test Start Date:	03-29-04	<blank></blank>		Notes:	
Test Start Time:	15:13:44	<blank></blank>		DTEX Model:	DX1000G
TDL Result:	0.06%	EVANSVILLE			
				Serial Number:	00266
RDL Result:	0.57%	INDIANA	<blank></blank>	Test Error Code:	**
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· ·			/		
Test #:	00027	HWY 41		User: JEFF SALTZMAN	
Test Start Date:	03-29-04	<blank></blank>			
Test Start Time:	15:19:47			Notes:	
		<blank></blank>		DTEX Model:	DX1000G
TDL Result:	0.03%	EVANSVILLE		Serial Number:	00266
RDL Result:	0.30%	INDIANA	<blank></blank>	Test Error Code:	**
Test Time (Sec):	109		-Diami		
a con time (OCO).	າບອ	Altitude (ft): 500		Test Temp (C):	24
· 4			,		
•	•				
•	•		•	•	
Test #:	ഹഹാ	DEDODOL *	·		
	00028	BERGDOLT		User: JEFF SALTZMAN	
Test Start Date:	03-29-04	<blank></blank>		Notes:	
Test Start Time:	15:42:47	<blank></blank>			DV40000
TDL Result:				DTEX Model:	DX1000G
	0.01%	EVANSVILLE		Serial Number:	00266
RDL Result:	0.23%	INDIANA	<blank></blank>	Test Error Code:	**
Test Time (Sec):	81	Altitude (ft): 500	-		
	~ ·	, and the sour		Test Temp (C):	25 .

Exhibit #8(b)

Test #: Test Start Date: Test Start Time: TDL Result: RDL Result: Test Time (Sec):	00029 03-29 16:40 0.01% 0.27% 16	-04 <blank> :43 <blank> 5 EVANSVILLE</blank></blank>	<blank></blank>	User: Notes: DTEX Model: Serial Number: Test Error Cod Test Temp (C):	e; **
•					
Test #: Test Start Date: Test Start Time: TDL Result: RDL Result: Test Time (Sec):	00030 03-30 09:52 0.03% 0.50% 60	-04 <blank> :32 <blank> • EVANSVILLE</blank></blank>	<blank></blank>	User: Notes: DTEX Model: Serial Number: Test Error Cod Test Temp (C):	9: **
•		•		• .	
Test #: Test Start Date: Test Start Time: TDL Result: RDL Result: Test Time (Sec):	00031 03-30 10:17: 0.03% 0.33% 48	-04 <blank> 09 <blank> NEWBURGH</blank></blank>	23345	User: Notes: DTEX Model: Serial Number: Test Error Code Test Temp (C):	DX1000G 00266 ** 13
	•				
Test #: Test Start Date: Test Start Time: TDL Result: RDL Result: Test Time (Sec):	00032 03-30- 10:32: 0.03% 0.34% 14	04 <blank> 23 <blank> NEWBURGH</blank></blank>	<blank></blank>	User: Notes: DTEX Model: Serial Number: Test Error Code Test Temp (C):	DX1000G 00266 ** 14
**	•				•
Test #: Test Start Date: Test Start Time: TDL Result: RDL Result: Test Time (Sec):	00033 03-30- 14:05: 0.03% 0.30% 102		<blank></blank>	User: J Notes: DTEX Model: Serial Number: Test Error Code Test Temp (C):	DX1000G 00266 : **
Test #: Test Start Date: Test Start Time: TDL Result: RDL Result:	00034 03-30- 14:19:0 0.01% 0.12%	03 <blank> RICHLAND INDIANA</blank>	<blank></blank>	Notes: DTEX Model: Serial Number: Test Error Code	•
Test Time (Sec):	49	Altitude (ft): 500		Test Temp (C):	16

SOUTHERN INDIANA GAS AND ELECTRIC COMPANY 20 N.W. FOURTH STREET EVANSVILLE, INDIANA 47741-0001 POTATE. February 20, 1997

119367

SIGE(The Emergy Col

TERMS:- NET 30 DAYS FROM DATE OF INVOICE

PLEASE RETURN THIS PORTION WITH PAYMENT

AMOUNT DUE **\$212.90**

Evansville Water Works Evansville, in 47711 1931 Allens Ln

Evansville Water Works

Evanvsille, In 47711

1931 Allens Ln

ADDRESS

NAME

February 20,1997

\$212.90

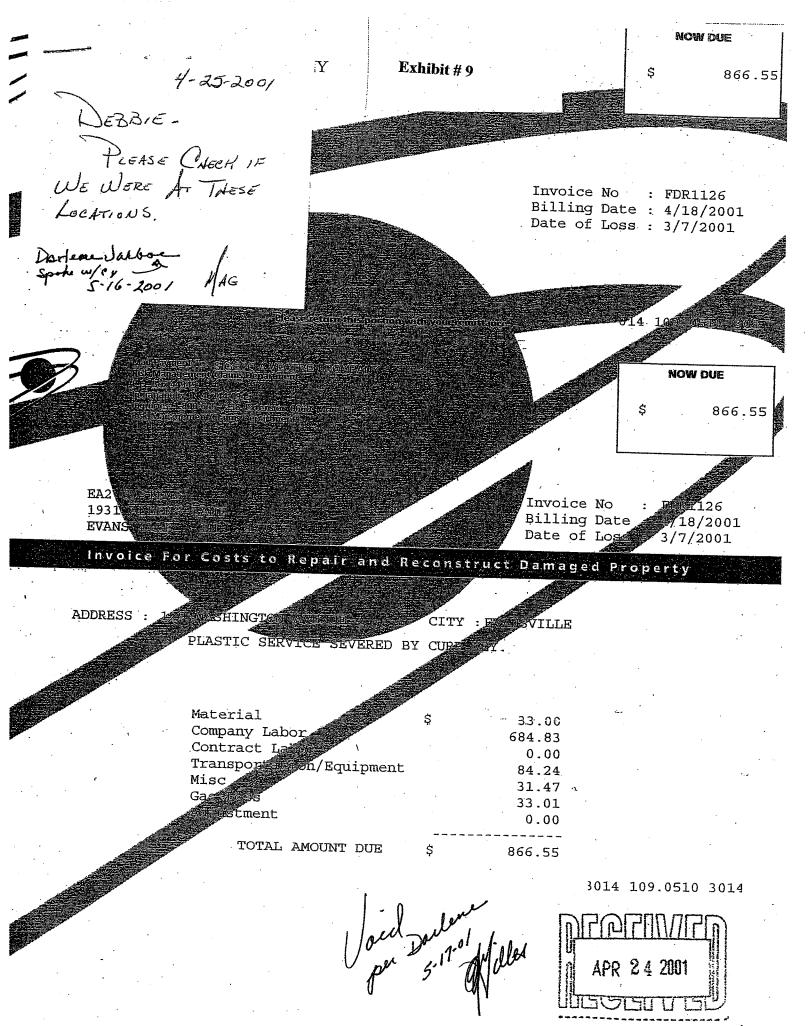
AMOUNT DUE

INVOICE DATE

The Energy Company

SOUTHERN INDIANA GAS AND ELECTRIC COMPANY 20 N.W. FOURTH STREET EVANSVILLE, INDIANA 47741-0001

on old low pressure service (valve box had a gas lid on it) damage was done at 913 S Villa on 12/6/96 Bill fordamage done when contractor shut off wrong valve at curb & cut 1" plastic that was inserted for File #25252



207.39

LANE

IN

Invoice No

: FDR0854

Billing Date : 4/18/2001

Date of Loss : 3/9/2001

NOW DUE

\$ 207.39

EA2 1931

Invoice No Billing Date Date of Loss

854 718/2001 3/9/2001

Invoice For Costs to Repair and Reconstruct Damaged Property

ADDRESS :

CITY : 國 VILLE

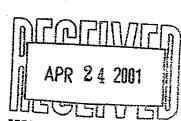
PLASTIC SERVICE SEVERED WHEN JUNKEY USED ON GAS.

Matana 1		
Material	\$ 14.2	2.6
Company Labor		
Contract Labor	156.2	28
	0.0	0.0
Transportation/Equipment		
Misc	23.4	ŦÛ
	0.0	00
Gasaloss	13.5	= 7
# Truestment		
	0.0	0 (

TOTAL AMOUNT DUE 207.39

Void Delen 2001
ger 5-17-2001

3014 109.0510 3014



Date: 4/5/2004

Completed Qualification Report

Page: 1

Site: VEDI Evansville Employee: Durbin, Dave

Qualification	Qualify	Requalify
Abnormal Operating Conditions	10/28/2002	10/28/2005
PEF0401.01 Corrosion Monitoring - Atmospheric/Ext./Int.: General	10/28/2002	10/28/2005
PEF0401.03 Corrosion Monitoring - Atmospheric/Ext./Int.: Ltd. (operator defined)	10/28/2002	10.4012000
PEF0402.01 Coating Maintenance: General	10/28/2002	10/28/2005
PEF0402.02 Coating Maintenance: Limited (operator defined)	10/28/2002	10.20.2000
PEF0505.01 Cathodic Protection System Testing: General	10/28/2002	10/28/2005
PEF0505.08 Cathodic Protection System Testing: Limited (Operator Defined)	10/28/2002	10,200
PEF0512.01 Pipe-To-Soil Testing	10/28/2002	10/28/2005
PEF0701.01 Locate/Install/Protect Cust. Meters/Regulators: Residential/Small Com	10/28/2002	10/28/2005
PEF0701.02 Locate/Install/Protect Cust. Meters/Regulators: Large Com./Industrial	10/28/2002	10/28/2005
PEF0801.01 Locating Pipelines	10/28/2002	10/28/2005
PEF0802.01 Protection During Disturbance of Segment Support	10/28/2002	10/28/2005
PEF0803.01 Inspection For Damage	10/28/2002	10/28/2005
PEF1001.01 Cast Iron Joints - Sealing: Caulked Bell and Spigot Joints	10/28/2002	10/28/2005
PEF1002.01 Plastic Pipe - Electrofusion: Couplings	2/5/2004	2/5/2005
PEF1002.02 Plastic Pipe - Electrofusion: Sidewall	2/5/2004	2/5/2005
PEF1003.01 Plastic Pipe - Butt Heat Fusion	2/5/2004	2/5/2005
PEF1004.01 Plastic Pipe - Sidewall Heat Fusion	2/5/2004	2/5/2005
PEF1005.02 Mechanical Joints - Stab Fittings	2/5/2004	2/5/2005
PEF1005.03 Mechanical Joints - Compression Couplings 2" and Less	2/5/2004	2/5/2005
PEF1005.04 Mechanical Joints - Compression Couplings Greater Than 2"	2/5/2004	2/5/2005
PEF1006.01 Plastic Pipe - Socket Heat Fusion	2/5/2004	2/5/2005
PEF1201.01 Leakage Survey: Walking	10/28/2002	10/28/2005
PEF1201.02 Leakage Survey: Mobile	10/28/2002	10/28/2005
PEF1202.01 Outside Gas Leakage Investigation, Pinpointing, and Grading	10/28/2002	10/28/2005
PEF1301.01 Leak/Strength Test - Service/Main/Trans. Line: Gas pressure <=100 psi	10/28/2002	10/28/2005
PEF1301.02 Leak/Strength Test - Service/Main/Trans. Line: Gas pressure > 100 psi	10/28/2002	10/28/2005
PEF1301.03 Leak/Strength Test - Service/Main/Trans. Line: Hydrostatic Test	10/28/2002	10/28/2005
PEF1301.04 Leak/Strength Test - Service/Main/Trans. Line: Op. Press. (soap test)	10/28/2002	10/28/2005
PEF1401.01 Abandonment or Inactivation of Facilities	10/28/2002	10/28/2005
PEF1402.01 Backfilling	10/28/2002	
PEF1405.01 Underground Clearances	10/28/2002	10/28/2005
PEF1408.01 Installation of Plastic Pipe: Direct Burial	10/28/2002	10/28/2005
PEF1408.02 Installation of Plastic Pipe: Boring	10/28/2002	10/28/2005
PEF1408.03 Installation of Plastic Pipe: Plowing/Planting	10/28/2002	10/28/2005
PEF1408.04 Installation of Plastic Pipe: Plowing/Pull-in	10/28/2002	10/28/2005
PEF1408.05 Installation of Plastic Pipe: Above Ground	10/28/2002	10/28/2005
PEF1408.06 Installation of Plastic Pipe: Insertion	10/28/2002	10/28/2005
PEF1409.01 Installation of Steel Pipe: Direct Burial	10/28/2002	10/28/2005
PEF1409.02 Installation of Steel Pipe: Boring	10/28/2002	10/28/2005
PEF1409.03 Installation of Steel Pipe: Plowing/Pull-in	10/28/2002	10/28/2005
PEF1409.04 Installation of Steel Pipe: Driving	10/28/2002	10/28/2005
PEF1409.05 Installation of Steel Pipe: Above Ground	10/28/2002	10/28/2005
The state of the s	1012012002	.012012000

Date: 4/5/2004

Completed Qualification Report

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Site: VEDI Evansville Employee: Durbin, Dave

Qualification	Qualify	Requalify
PEF1409.06 Installation of Steel Pipe: Insertion	10/28/2002	10/28/2005
PEF1410.01 Cover - Service Lines, Mains, and Transmission Lines	10/28/2002	10/28/2005
PEF1411.01 Inspection: Compliance with Procedures and Standards	10/28/2002	10/28/2005
PEF1411.02 Inspection: Inspection of Materials	10/28/2002	10/28/2005
PEF1413.01 Line Markers	10/28/2002	10/28/2005
PEF1414.01 Pipe Shutdown/Startup/Pressure Change: Bag & Stopper Cast Iron	10/28/2002	10/28/2005
PEF1414.02 Pipe Shutdown/Startup/Pressure Change: Squeeze Off Pipe	10/28/2002	10/28/2005
PEF1414.03 Pipe Shutdown/Startup/Pressure Change: Stopper Pipe	10/28/2002	10/28/2005
PEF1414.04 Pipe Shutdown/Startup/Pressure Change: Operating Identified Valve(s)	10/28/2002	10/28/2005
PEF1414.05 Pipe Shutdown/Startup/Pressure Change: Mthd(s) for Other Pipe Mtls.	10/28/2002	
PEF1415.01 Protection from Hazards	10/28/2002	10/28/2005
PEF1417.01 Protection when Minimum Cover not Met	10/28/2002	10/28/2005
PEF1418.01 Purging: Large Vol., i.e. Segment of Main or Transmission Line, Etc.	10/28/2002	10/28/2005
PEF1418.02 Purging: Small Vol., e.g. Svc. Line, Short Pipe, Compressor, etc.	10/28/2002	10/28/2005
PEF1422.01 Qualification covered by other CTS(s), see actual CTS for reference	10/28/2002	
PEF1425.01 Tapping Cast and Ductile Iron Pipe	10/28/2002	
PEF1426.01 Tapping Steel and Plastic Pipe: Manual (self-tapping)	10/28/2002	10/28/2005
PEF1426.02 Tapping Steel and Plastic Pipe: Mechanical Tapping Equipment	10/28/2002	1 1.5
PEF1427.01 Valve Maintenance: Inspection/Partial Operation	10/28/2002	10/28/2005
PEF1427.02 Valve Maintenance: Maintenance	10/28/2002	10/28/2005
PEF1431.01 Segment Removal	10/28/2002	10/28/2005
PEF1432.01 Leak Clamps and Sleeves: Bolt-on type	10/28/2002	10/28/2005
PEF2010.01 Service Line Replacement	10/28/2002	10/28/2005
PEF2010.02 Service Line Replacement: Undergrd Svc Entrance (Prereg. 2010.01)	10/28/2002	
PEF2011.01 Prevention of Accidental Ignition	10/28/2002	10/28/2005
PEF2014.01 Service Lines Not In Use and Service Discontinuance	10/28/2002	10/28/2005
PEF2302.01 Uprating Pipeline to Pressure Producing Hoop Stress < 30% SMYS	10/28/2002	10/28/2005
	• •	

Date: 4/5/2004

Completed Qualification Report

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Site: VEDI Evansville Employee: Rexing, Mark

Qualification	Qualify	Requalify
Abnormal Operating Condtions	11/21/2003	11/21/2006
PEF0401.01 Corrosion Monitoring - Atmospheric/Ext./Int.: General	10/28/2002	10/28/2005
PEF0401.03 Corrosion Monitoring - Atmospheric/Ext./Int.: Ltd. (operator defined)	10/28/2002	10/20/2003
PEF0402.01 Coating Maintenance: General	10/28/2002	10/28/2005
PEF0402.02 Coating Maintenance: Limited (operator defined)	10/28/2002	.0/20/2000
PEF0512.01 Pipe-To-Soil Testing	11/18/2003	11/18/2006
PEF0701.01 Locate/Install/Protect Cust. Meters/Regulators: Residential/Small Com	10/28/2002	10/28/2005
PEF0701.02 Locate/Install/Protect Cust. Meters/Regulators: Large Com./Industrial	10/28/2002	10/28/2005
PEF0801.01 Locating Pipelines	11/18/2003	11/18/2006
PEF0802.01 Protection During Disturbance of Segment Support	11/18/2003	11/18/2006
PEF0803.01 Inspection For Damage	11/18/2003	11/18/2006
PEF1001.01 Cast Iron Joints - Sealing: Caulked Bell and Spigot Joints	11/18/2003	11/18/2006
PEF1002.01 Plastic Pipe - Electrofusion: Couplings	2/5/2004	2/5/2005
PEF1002.02 Plastic Pipe - Electrofusion: Sidewall	2/5/2004	2/5/2005
PEF1003.01 Plastic Pipe - Butt Heat Fusion	2/5/2004	2/5/2005
PEF1004.01 Plastic Pipe - Sidewall Heat Fusion	2/5/2004	2/5/2005
PEF1005.02 Mechanical Joints - Stab Fittings	2/5/2004	2/5/2005
PEF1005.03 Mechanical Joints - Compression Couplings 2" and Less	2/5/2004	2/5/2005
PEF1005.04 Mechanical Joints - Compression Couplings Greater Than 2"	2/5/2004	2/5/2005
PEF1006.01 Plastic Pipe - Socket Heat Fusion	2/5/2004	2/5/2005
PEF1201.01 Leakage Survey: Walking	11/18/2003	11/18/2006
PEF1201.02 Leakage Survey: Mobile	11/18/2003	11/18/2006
PEF1202.01 Outside Gas Leakage Investigation, Pinpointing, and Grading	10/28/2002	10/28/2005
PEF1203.01 Inside Gas Leakage Investigation	11/18/2003	11/18/2006
PEF1301.01 Leak/Strength Test - Service/Main/Trans. Line: Gas pressure <=100 psi	10/28/2002	10/28/2005
PEF1301.02 Leak/Strength Test - Service/Main/Trans. Line: Gas pressure > 100 psi	11/21/2003	11/21/2006
PEF1301.03 Leak/Strength Test - Service/Main/Trans. Line: Hydrostatic Test	11/21/2003	11/21/2006
PEF1301.04 Leak/Strength Test - Service/Main/Trans. Line: Op. Press. (soap test)	11/21/2003	11/21/2006
PEF1401.01 Abandonment or Inactivation of Facilities	11/21/2003	11/21/2006
PEF1402.01 Backfilling	11/21/2003	11/21/2006
PEF1404.01 Casing Vents and Seals	11/21/2003	11/21/2006
PEF1405.01 Underground Clearances	11/21/2003	11/21/2006
PEF1408.01 Installation of Plastic Pipe: Direct Burial	10/28/2002	10/28/2005
PEF1408.02 Installation of Plastic Pipe: Boring	11/21/2003	11/21/2006
PEF1408.03 Installation of Plastic Pipe: Plowing/Planting	11/21/2003	11/21/2006
PEF1408.04 Installation of Plastic Pipe: Plowing/Pull-in	11/21/2003	11/21/2006
PEF1408.05 Installation of Plastic Pipe: Above Ground	11/21/2003	11/21/2006
PEF1408.06 Installation of Plastic Pipe: Insertion	11/21/2003	11/21/2006
PEF1409.01 Installation of Steel Pipe: Direct Burial	11/21/2003	11/21/2006
PEF1409.02 Installation of Steel Pipe: Boring	11/21/2003	11/21/2006
PEF1409.03 Installation of Steel Pipe: Plowing/Pull-in	11/21/2003	11/21/2006
PEF1409.04 Installation of Steel Pipe: Driving	11/21/2003	11/21/2006
PEF1409.05 Installation of Steel Pipe: Above Ground	11/21/2003	11/21/2006
		· -

Date: 4/5/2004

Completed Qualification Report

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Site: VEDI Evansville Employee: Rexing, Mark

Qualification	Qualify	Requalify
PEF1409.06 Installation of Steel Pipe: Insertion	11/21/2003	11/21/2006
PEF1410.01 Cover - Service Lines, Mains, and Transmission Lines	11/21/2003	11/21/2006
PEF1411.01 Inspection: Compliance with Procedures and Standards	11/21/2003	11/21/2006
PEF1411.02 Inspection: Inspection of Materials	11/21/2003	11/21/2006
PEF1413.01 Line Markers	11/21/2003	11/21/2006
PEF1414.01 Pipe Shutdown/Startup/Pressure Change: Bag & Stopper Cast Iron	11/21/2003	11/21/2006
PEF1414.02 Pipe Shutdown/Startup/Pressure Change: Squeeze Off Pipe	11/21/2003	11/21/2006
PEF1414.03 Pipe Shutdown/Startup/Pressure Change: Stopper Pipe	11/21/2003	11/21/2006
PEF1414.04 Pipe Shutdown/Startup/Pressure Change: Operating Identified Valve(s)	11/21/2003	11/21/2006
PEF1414.05 Pipe Shutdown/Startup/Pressure Change: Mthd(s) for Other Pipe Mtls.	11/21/2003	
PEF1415.01 Protection from Hazards	11/21/2003	11/21/2006
PEF1417.01 Protection when Minimum Cover not Met	11/21/2003	11/21/2006
PEF1418.01 Purging: Large Vol., i.e. Segment of Main or Transmission Line, Etc.	11/21/2003	11/21/2006
PEF1418.02 Purging: Small Vol., e.g. Svc. Line, Short Pipe, Compressor, etc.	11/21/2003	11/21/2006
PEF1425.01 Tapping Cast and Ductile Iron Pipe	11/21/2003	11/21/2006
PEF1426.01 Tapping Steel and Plastic Pipe: Manual (self-tapping)	11/21/2003	11/21/2006
PEF1426.02 Tapping Steel and Plastic Pipe: Mechanical Tapping Equipment	11/21/2003	11/21/2006
PEF1427.01 Valve Maintenance: Inspection/Partial Operation	11/21/2003	11/21/2006
PEF1427.02 Valve Maintenance: Maintenance	11/21/2003	11/21/2006
PEF1431.01 Segment Removal	11/21/2003	11/21/2006
PEF1432.01 Leak Clamps and Sleeves: Bolt-on type	11/21/2003	11/21/2006
PEF1432.02 Leak Clamps and Sleeves: Composite Sleeve (Clock Spring)	10/28/2002	10/28/2005
PEF2010.01 Service Line Replacement	11/21/2003	11/21/2006
PEF2010.02 Service Line Replacement: Undergrd Svc Entrance (Prereq. 2010.01)	11/21/2003	11/21/2008
PEF2011.01 Prevention of Accidental Ignition	11/21/2003	11/21/2006
PEF2014.01 Service Lines Not In Use and Service Discontinuance	11/21/2003	11/21/2006
PEF2302.01 Uprating Pipeline to Pressure Producing Hoop Stress < 30% SMYS	11/21/2003	11/21/2006

Date: 4/5/2004

Completed Qualification Report

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Site: VEDI Evansville Employee: Williamson, Dennis

	Qualification	Qualify	Requalify
	Abnormal Operating Conditions	10/28/2002	10/28/2005
	PEF0401.01 Corrosion Monitoring - Atmospheric/Ext./Int.: General	10/28/2002	10/28/2005
	PEF0402.01 Coating Maintenance: General	10/28/2002	10/28/2005
	PEF0402.02 Coating Maintenance: Limited (operator defined)	10/28/2002	
	PEF0501.02 Cathodic Protection System Maintenance: Rectifiers	10/28/2002	10/28/2005
	PEF0501.03 Cathodic Protection System Maintenance: Electrical Isolation	10/28/2002	10/28/2005
	PEF0501.04 Cathodic Protection System Maintenance: Anodes/Anode Ground Beds	10/28/2002	10/28/2005
	PEF0501.05 Cathodic Protection System Maintenance: Diodes	10/28/2002	10/28/2005
	PEF0501.06 Cathodic Protection System Maintenance: Reverse Current Switches	10/28/2002	10/28/2005
	PEF0503.01 Cathodic Protection System - Electrical Connections	10/28/2002	10/28/2005
	PEF0505.01 Cathodic Protection System Testing: General	10/28/2002	10/28/2005
	PEF0511.01 Soil ResistivityTesting	10/28/2002	10/28/2005
	PEF0512.01 Pipe-To-Soil Testing	10/28/2002	10/28/2005
	PEF0701.01 Locate/Install/Protect Cust. Meters/Regulators: Residential/Small Com	10/28/2002	10/28/2005
	PEF0701.02 Locate/Install/Protect Cust. Meters/Regulators: Large Com./Industrial	10/28/2002	10/28/2005
	PEF0702.01 Customer Pressure Regulate/Limit/Relief - O&M: Residential/Small Comm	10/28/2002	10/28/2005
	PEF0702.02 Customer Pressure Regulate/Limit/Relief - O&M: Large Comm/Industrial	10/28/2002	10/28/2005
	PEF0801.01 Locating Pipelines	10/28/2002	10/28/2005
	PEF0803.01 Inspection For Damage	10/28/2002	10/28/2005
	PEF0901.01 System Patrolling	10/28/2002	10/28/2005
	PEF1201.01 Leakage Survey: Walking	10/28/2002	
,	PEF1201.02 Leakage Survey: Mobile	10/28/2002	
	PEF1202.01 Outside Gas Leakage Investigation, Pinpointing, and Grading	10/28/2002	10/28/2005
	PEF1203.01 Inside Gas Leakage Investigation	10/28/2002	10/28/2005
	PEF1301.01 Leak/Strength Test - Service/Main/Trans. Line: Gas pressure <=100 psi	10/28/2002	10/28/2005
	PEF1301.02 Leak/Strength Test - Service/Main/Trans. Line: Gas pressure > 100 psi	10/28/2002	10/28/2005
	PEF1301.03 Leak/Strength Test - Service/Main/Trans. Line: Hydrostatic Test	10/28/2002	10/28/2005
	PEF1301.04 Leak/Strength Test - Service/Main/Trans. Line: Op. Press. (soap test)	10/28/2002	10/28/2005
	PEF1401.01 Abandonment or Inactivation of Facilities	10/28/2002	10/28/2005
	PEF1402.01 Backfilling	10/28/2002	10/28/2005
	PEF1405.01 Underground Clearances	10/28/2002	10/28/2005
	PEF1408.01 Installation of Plastic Pipe: Direct Burial	10/28/2002	10/28/2005
	PEF1409.01 Installation of Steel Pipe: Direct Burial	10/28/2002	
	PEF1409.05 Installation of Steel Pipe: Above Ground	10/28/2002	
	PEF1410.01 Cover - Service Lines, Mains, and Transmission Lines	10/28/2002	10/28/2005
	PEF1411.01 Inspection: Compliance with Procedures and Standards	10/28/2002	10/28/2005
	PEF1411.02 Inspection: Inspection of Materials	10/28/2002	10/28/2005
	PEF1413.01 Line Markers	10/28/2002	10/28/2005
	PEF1414.02 Pipe Shutdown/Startup/Pressure Change: Squeeze Off Pipe	10/28/2002	10/28/2005
	PEF1414.04 Pipe Shutdown/Startup/Pressure Change: Operating Identified Valve(s)	10/28/2002	10/28/2005
	PEF1415.01 Protection from Hazards	10/28/2002	10/28/2005
	PEF1418.01 Purging: Large Vol., i.e. Segment of Main or Transmission Line, Etc.	10/28/2002	10/28/2005
	PEF1418.02 Purging: Small Vol., e.g. Svc. Line, Short Pipe, Compressor, etc.	10/28/2002	10/28/2005
			-

Date: 4/5/2004

Completed Qualification Report

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Site: VEDI Evansville Employee: Williamson, Dennis

Qualification	Qualify	Requalify
PEF1424.01 Support, Expansion Joint and Anchor Maintenance - Exposed Pipeline	10/28/2002	10/28/2005
PEF1426.01 Tapping Steel and Plastic Pipe: Manual (self-tapping)	1/1/2999	1/1/3002
PEF1426.02 Tapping Steel and Plastic Pipe: Mechanical Tapping Equipment	10/28/2002	
PEF1427.01 Valve Maintenance: Inspection/Partial Operation	10/28/2002	10/28/2005
PEF1427.02 Valve Maintenance: Maintenance	10/28/2002	
PEF1432.01 Leak Clamps and Sleeves: Bolt-on type	10/28/2002	
PEF1501.01 Odorization - Mains and Transmission Lines: Periodic Sampling	10/28/2002	10/28/2005
PEF1501.02 Odorization - Mains and Transmission Lines: Odorizer Maintenance	10/28/2002	10/28/2005
PEF1802.01 Vault Maintenance	10/28/2002	10/28/2005
PEF1803.01 Pressure Regulating, Limiting, and Relief Device - O&M	10/28/2002	
PEF2011.01 Prevention of Accidental Ignition	10/28/2002	10/28/2005
PEF2014.01 Service Lines Not In Use and Service Discontinuance	10/28/2002	10/28/2005
PEF2302.01 Uprating Pipeline to Pressure Producing Hoop Stress < 30% SMYS	10/28/2002	-

EMERGENCY RESPONSE PROGEDURES

General Policy of IRST RESPONDER ACTIVITIES

03/28/03

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HIS SECTION PROVIDES STANDARD PROCEDURES for performing first response activities in emergency situations.

Exhibit # 10(b)

GENERAL

Emergencies and public safety situations demand competent and confident action by First Responders using established procedures and good judgment to protect life first, then property. This section provides standard procedures for performing first response activities for emergency situations.

DEFINITION OF "FIRST RESPONDER" The FIRST RESPONDER is the first company person on the scene equipped to handle an emergency or public safety situation.

The First Responder is expected to carry out the steps necessary to deal with the situation until the emergency or public safety situation ends, or until a Supervisor, recognized public official, or emergency authority verbally assumes control.

FIRST RESPONDER ACTIVITIES

To assist the First Responder, a checklist has been developed (see Exhibit "A"). This checklist should help the First Responder focus on the important activities involved in most emergencies. Remember, however, that the Checklist is intended only as a job aid, and that each situation is unique, therefore, response activities may be different from those listed, may need to be performed in a different order, or may include steps not listed. Also, emergencies and incidents may occur which are not specifically addressed in this section. Therefore, response personnel are expected to apply their knowledge and experience as appropriate, use established procedures if applicable and exercise good judgment to protect life first, then property. Refer to the pages following the First Responder Checklist, for expanded information on these topics.

USING THE FIRST RESPONDER CHECKLIST The First Responder Checklist provides guidance in responding to emergency or public safety situations. It lists certain emergencies and indicates the steps normally involved in making them safe. First response activities for listed emergencies begin with the steps numbered 1 through 4 in the upper portion of the Checklist.

Beyond these four steps, however, the first response activities required for the listed emergencies (A through F), as indicated on the checklist may vary. The ongoing steps normally required to be taken by the First Responder are indicated by numbers in the column under the letter identification of the listed emergency.

FIRST RESPONDER Checklist

Intended only as a job aid. Refer to the Emergency Response Plan section 4, in particular section 4.02, for full policy information.

The FIRST RESPONDER is the first person on the scene equipped to handle an emergency or public safety situation. When responding to ... T

NATURAL GAS in or near a building (p. 3)

OUTAGE or INTERRUPTION in supply or delivery of gas (p. 10)

FIRE / EXPLOSION near or directly involving a pipeline facility (p. 5)

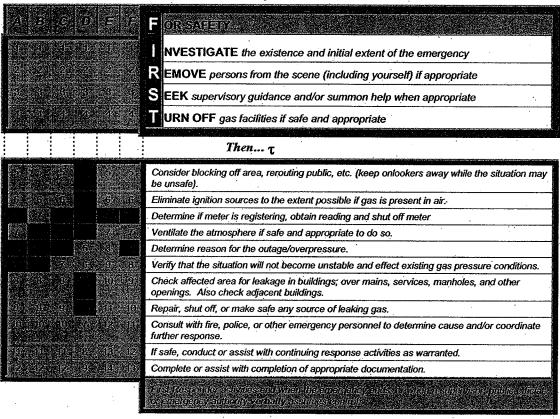
OVERPRESSURIZATION (p. 12)

ACT-OF-NATURE/VAN-

DALISM/TERRORISM (p. 7)

CUT LINE / RELEASE OF GAS (p. 14)

...the First Responder should... T



NOTES: In responding to any emergency, remember that each situation is unique—therefore, response activities may be different from those listed, may need to be performed in a different order, or may include steps not listed. Also, emergencies and incidents may occur which are not specifically addressed in this section. Therefore, response personnel are expected to apply their knowledge and experience as appropriate, use established procedures if applicable, and of course, exercise good judgment to protect life first, then property

- REMEMBER, NATURAL GAS: ignites at approximately 1100 degrees F.
 - rises in air while most other gases pool near ground level
 - · has an explosive range between 4 and 15 percent gas-in-air
 - · odorant is highly flammable

e NATURAL GAS in of near a building party of

Natural Gas in or near a building includes such things as, but not limited to the following: sewer transections, release of gas or leakage from customer or company facilities.

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Determine that the emergency exists at the location dispatched. Also, determine how extensive or serious the emergency is with a preliminary investigation. Any reading obtained with a CGI inside a building is considered an emergency.

Be aware of the possibility that persons may need to be removed from the scene in the interest of safety. Use care to <u>NOT</u> activate any electrical device that could spark ignition. Remember that an unsafe or unstable situation may require that company personnel should stay away from the scene.

If the situation is serious enough, inform dispatching and seek guidance and/or assistance from supervision and other personnel. If preliminary information indicates the need for additional response personnel or equipment, consider informing supervision before arriving on the scene.

If the situation warrants, and if safe to do so, turn off gas facilities to the area which is vulnerable or affected by the emergency. While it may be necessary for a wider area of the system to be shut down, this is most likely a decision the Supervisor should be asked to make, whenever time and conditions permit. CAUTION: DO NOT turn off gas facilities unless the effect of the turn-off is known.

THEN... T

5.	Consider blocking off area, rerouting public, etc. (keep onlookers away while the situation may be unsafe).	Consider if it is advisable to block off the area or reroute public presence. Ensure that anyone removed from the area stays away while the situation remains unsafe.
6.	Eliminate ignition sources to the extent possible if gas is present in air.	Attempt to determine the status of ignition sources in the area, and if safe and appropriate to do so, eliminate these source(s) if gas is present in the air. If it is necessary to contact other utilities such as electric, phone, or cable, make the call(s) from outside the gaseous environment.

(Seceral Policy) FIRST RESPONDER ACTIVITIES

01/02/02

PAGE 4 of 16

7.	Ventilate the atmosphere if safe and appropriate to do so.	If gas is present in air, ventilate the atmosphere if safe and appropriate. This may include removing manhole covers, barholing, installing vent holes, opening windows and/or doors or other means. If the detected concentration of gas in air is above or within the explosive range (4-15 percent of natural gas), DO NOT ventilate the atmosphere until all ignition sources have been eliminated. Ventilating the atmosphere under such conditions will at some point bring the concentration into the flammable range. If the ignition sources are not removed prior	Deleted: at or Deleted: 15 percent Deleted: the Upper Explosive Limit
8.	Check affected area for leakage in buildings; over mains, services, manholes, and other openings. Also check other buildings in the vicinity.	to this, the environment could become explosive. With appropriate equipment, survey the affected area over mains, services, manholes, and other openings. Pay particular attention to areas of recent excavation for signs of leakage. Check inside buildings at the location of the emergency, and check other buildings in the vicinity. Keep in mind that any explosion in close proximity could effect gas facilities. DO NOT use an FI unit inside a building.	
9.	Repair, shut off, or make safe any source of leaking gas.	If leakage is detected and situation allows, repair, shut off, or make safe any source of leaking gas. Note time made safe and notify dispatch/supervision, otherwise await assistance from other personnel. Wear flash gear, if appropriate	
10.	Consult with fire, police, or other emergency personnel to determine cause and/or coordinate further response.	Work with other on-scene emergency personnel to coordinate and conduct ongoing response activities, including crowd control if necessary. Refer media inquiries to supervision or designated media contact.	Formatted: Bullets and Numbering
<u>11.</u>	If safe, conduct or assist with continuing response activities as the situation warrants.	Depending on the situation, additional response activities may be warranted. Perform or assist with such activities if safe and appropriate to do so.	Formatted: Bullets and Numbering
12.	Complete or assist with completion of appropriate documentation.	Gather initial information and complete, or assist in the completion of documentation as required by the situation possibly including, but not limited to: Work Tickets, Customer Listings, Outage Reports, Public Accident Report/Claim Notice, Report of Damage to Company Property/Plant, and the "Natural Gas Incident Report". Refer to the "Internal Incident Reporting Matrix" to determine reporting requirements. (see Section 3.01 - Exhibit "B").	Formatted: Bullets and Numbering



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If the situation is serious enough, inform dispatching and seek guidance and/or assistance from supervision and other personnel. If preliminary information indicates the need for additional response personnel or equipment, consider informing supervision before arriving on the scene.

If the situation warrants, and if safe to do so, turn off gas facilities to the area which is vulnerable or affected by the emergency. While it may be necessary for a wider area of the system to be shut down, this is most likely a decision the Supervisor should be asked to make, whenever time and conditions permit. CAUTION: DO NOT turn off gas facilities unless the effect of the turn-off is known.

THEN... τ

5.	Consider blocking off area, rerouting public, etc. (keep onlookers away while the situation may be unsafe).	Consider if it is advisable to block off the area or reroute public presence. Remember that natural gas may migrate below ground to another venting point. Ensure that anyone removed from the area stays away while the situation remains unsafe.
6.	Eliminate ignition sources to the extent possible if gas is present in air.	Attempt to determine the status of ignition sources in the area, and if safe and appropriate to do so, eliminate these source(s) if gas is present in the air. If it is necessary to contact other utilities such as electric, phone, or cable, make the call(s) from outside the gaseous environment.
7.	Determine if the meter is registering, shut off the meter if appropriate, and obtain meter readings if possible.	Because it may be important in a fire or explosion investigation, determine if the meter is showing registration. Also, it will probably be necessary to turn off the meter so gas does not feed the fire or contribute to additional potential hazards. Obtain a meter reading if at all possible.

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PAGE 6 of 16

8.	Check affected area for leakage in buildings; over mains, services, manholes, and other openings. Also check other buildings in the vicinity.	With appropriate equipment, survey the affected area over mains, services, manholes, and other openings. Pay particular attention to areas of recent excavation for signs of leakage. Check inside buildings at the location of the emergency, and check other buildings in the vicinity. Keep in mind that any explosion in close proximity could effect gas facilities. DO NOT use an FI unit inside a building.
9.	Repair, shut off, or make safe any source of leaking gas.	If leakage is detected and situation allows, repair, shut off, or make safe any source of leaking gas. Note time made safe and notify dispatch/supervision, otherwise await assistance from other personnel. Wear flash gear, if appropriate
10.	Consult with fire, police, or other emergency personnel to determine cause and/or coordinate further response.	Work with other on-scene emergency personnel to coordinate and conduct ongoing response activities, including crowd control if necessary. Refer media inquiries to supervision, or designated media contact.
11.	If safe, conduct or assist with continuing response activities as the situation warrants.	Depending on the situation, additional response activities may be warranted. Perform or assist with such activities if safe and appropriate to do so, including participating in an investigation if directed by the Supervisor.
12.	Complete or assist with completion of appropriate documentation.	Gather initial information and complete, or assist in the completion of documentation as required by the situation possibly including, but not limited to: Work Tickets, Customer Listings, Outage Reports, Public Accident Report/Claim Notice, Report of Damage to Company Property/Plant, and the "Natural Gas Incident Report". Refer to the "Internal Incident Reporting Matrix" to determine reporting requirements. (see Section 3.01 - Exhibit "B")



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Acts of Nature include Floods, Tornadoes, Earthquakes, and other large-scale natural disasters, which may adversely impact the normal operation of company facilities.

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If the situation is serious enough, inform dispatching and seek guidance and/or assistance from supervision and other personnel. If preliminary information indicates the need for additional response personnel or equipment, consider informing supervision before arriving on the scene.

If the situation warrants, and if safe to do so, turn off gas facilities to the area which is vulnerable or affected by the emergency. CAUTION: DO NOT turn off gas facilities unless the effect of the turn-off is known. If the immediate area is, or is likely to become, inaccessible in the aftermath of an emergency, mainline or regulator station valves may need to be used to eliminate gas leaks and/or fires. This is most likely a decision the Supervisor should be asked to make, whenever time and conditions permit.

THEN... T

5. Consider blocking off area, rerouting public, etc. (keep onlookers away while the situation may be unsafe).

6. Eliminate ignition contains

Eliminate ignition sources to the extent possible if gas is present in air.

Consider if it is advisable to block off the area or reroute public presence. Remember that natural gas may migrate below ground to another venting point. Ensure that anyone removed from the area stays away while the situation remains unsafe.

Attempt to determine the status of ignition sources in the area, and if safe and appropriate to do so, eliminate these source(s) if gas is present in the air. If it is necessary to contact other utilities such as electric, phone, or cable, make the call(s) from outside the gaseous environment.

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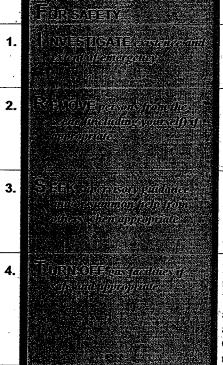
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7.	Verify that the situation will not become unstable and effect existing gas pressure conditions.	Evaluate conditions for stability. If they appear to be unstable, and the instability may create a more hazardous situation, call for assistance if additional help has not already been summoned. Otherwise, take further actions to stabilize the situation only if it is known what the full effects of those actions will be. While it may be necessary for a wider area of the transmission or distribution system to be shut down, this is most likely a decision the Supervisor should be asked to make, whenever time and conditions permit.
8.	Check affected area for leakage in buildings; over mains, services, manholes, and other openings. Also check other buildings in the vicinity.	With appropriate equipment, survey the affected area over mains, services, manholes, and other openings. Pay particular attention to areas of recent excavation for signs of leakage. Check inside buildings at the location of the emergency, and check other buildings in the vicinity. Keep in mind that any explosion in close proximity could effect gas facilities. DO NOT use an FI unit inside a building.
9.	Repair, shut off, or make safe any source of leaking gas.	If leakage is detected and situation allows, repair, shut off, or make safe any source of leaking gas. Note time made safe and notify dispatch/supervision, otherwise await assistance from other personnel. Wear flash gear, if appropriate
10.	Consult with fire, police, or other emergency personnel to determine cause and/or coordinate further response.	Work with other on-scene emergency personnel to coordinate and conduct ongoing response activities, including crowd control if necessary. Refer media inquiries to supervision or designated media contact.
11.	If safe, conduct or assist with continuing response activities as the situation warrants.	Depending on the situation, additional response activities may be warranted. Perform or assist with such activities if safe and appropriate to do so. In the event of flooding, if it is not expected to make the area inaccessible, provide for continued service. If, however, facilities are expected to become submerged, extend vents on house regulators and/or regulator stations if possible and as necessary. Relief stacks may also need extended. It may also be necessary and advisable to remove meters and cap or plug risers, fuel lines, etc. before they are submerged.

12. Complete or assist with completion of appropriate documentation.

Gather initial information and complete, or assist in the completion of documentation as required by the situation possibly including, but not limited to: Work Tickets, Customer Listings, Outage Reports, Public Accident Report/Claim Notice, Report of Damage to Company Property/Plant, and the "Natural Gas Incident Report". Refer to the "Internal Incident Reporting Matrix" to determine reporting requirements. (see Section 3.01 – Exhibit "B")

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If the situation is serious enough, inform dispatching and seek guidance and/or assistance from supervision and other personnel. If preliminary information indicates the need for additional response personnel or equipment, consider informing supervision before arriving on the scene.

If the situation warrants, and if safe to do so, turn off gas facilities to the area which is vulnerable or affected by the emergency. While it may be necessary for a wider area of the system to be shut down, this is most likely a decision the Supervisor should be asked to make, whenever time and conditions permit. CAUTION: DO NOT turn off gas facilities unless the effect of the turn-off is known.

THEN... T

5. Determine the reason for the outage or interruption.

Attempt to determine the reason for the outage or interruption. Sometimes this will be obvious and easily determined. It may be necessary, however, to call for assistance with this step, if additional help has not already been summoned.

Possible causes of interruptions include:

- regulator failure at purchase points, town borders, or distribution stations
- natural disasters (see also First Response item "C")

Continued

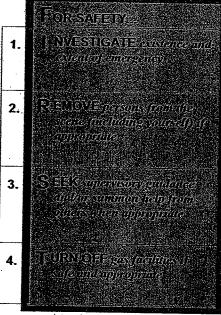


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5.	Determine the reason for the outage or interruption	 vandalism (see also <u>First Response item "C"</u>) damage to facilities (see also <u>First Response item "F"</u>)
And the state of t		operator error Gather as much information as possible to expedite corrective action. Use gauges to determine system pressure at critical
		locations. Refer to system maps to identify valves, regulator stations, and feeds that supply the affected area. Try to identify the affected area.
6.	Verify that the situation will not become unstable and effect existing gas pressure conditions.	Evaluate conditions for stability. If they appear to be unstable, and the instability may create a more hazardous situation, call for assistance if additional help has not already been summoned. Otherwise, take further actions to stabilize the situation only if it is known what the full effects of those actions will be.
·		While it may be necessary for a wider area of the transmission or distribution system to be shut down, this is most likely a decision the Supervisor should be asked to make, whenever time and conditions permit.
7.	Consult with fire, police, or other emergency personnel to determine cause and/or coordinate further response.	Work with other on-scene emergency personnel to coordinate and conduct ongoing response activities, including crowd control if necessary. Refer media inquiries to supervision, or designated media contact.
8.	If safe, conduct or assist with continuing response activities as the situation warrants.	Depending on the situation, additional response activities may be warranted. Perform or assist with such activities if safe and appropriate to do so.
9.	Complete or assist with completion of appropriate documentation.	Gather initial information and complete, or assist in the completion of documentation as required by the situation possibly including, but not limited to: Work Tickets, Customer Listings, Outage Reports, Public Accident Report/Claim Notice, Report of Damage to Company Property/Plant, and the "Natural Gas Incident Report". Refer to the "Internal Incident Reporting Matrix" to determine reporting requirements. (see Section 3.01 - Exhibit "B")



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Determine that the emergency exists at the location dispatched. Also, determine how extensive or serious the emergency is with a preliminary investigation. Any reading obtained with a CGI inside a building is considered an emergency.

Be aware of the possibility that persons may need to be removed from the scene in the interest of safety. Use care to <u>NOT</u> activate any electrical device that could spark ignition. Remember that an unsafe or unstable situation may require that company personnel should stay away from the scene.

If the situation is serious enough, inform dispatching and seek guidance and/or assistance from supervision and other personnel. If preliminary information indicates the need for additional response personnel or equipment, consider informing supervision before arriving on the scene.

If the situation warrants, and if safe to do so, turn off gas facilities to the area which is vulnerable or affected by the emergency. CAUTION: DO NOT turn off gas facilities unless the effect of the turn-off is known.

THEN... τ

5.	Consider blocking off area,
	rerouting public, etc. (keep
	onlookers away while the
	situation may be unsafe).
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6. Eliminate ignition sources to the extent possible if gas is present in air.

7. Ventilate the atmosphere if safe and appropriate to do so.

Consider if it is advisable to block off the area or reroute public presence. Remember that natural gas may migrate below ground to another venting point. Ensure that anyone removed from the area stays away while the situation remains unsafe.

Attempt to determine the status of ignition sources in the area, and if safe and appropriate to do so, eliminate these source(s) if gas is present in the air. If it is necessary to contact other utilities such as electric, phone, or cable, make the call(s) from outside the gaseous environment.

If gas is present in air, ventilate the atmosphere if safe and appropriate. This may include removing manhole covers, barholing, installing vent holes, opening windows and/or doors or other means. If the detected concentration of gas in air is above or within the explosive range (4-15 percent of natural gas), DO NOT ventilate the atmosphere until all ignition sources have been eliminated. Ventilating the atmosphere under such conditions will at some point bring the concentration into the flammable range. If the ignition sources are not removed prior to this, the environment could become explosive.

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PAGE 13 of 16

8.	Determine the reason for the overpressurization.	Attempt to determine the reason for the overpressurization. Sometimes this will be obvious and easily determined. Possible causes of overpressurization include regulator and/or relief failure at purchase points, pressure reducing stations and/or meter settings. It may be necessary, however, to call for assistance with this step, if additional help has not already been summoned.
9.	Verify that the situation will not become unstable and effect existing gas pressure conditions.	Evaluate conditions for stability. If they appear to be unstable, and the instability may create a more hazardous situation, call for assistance if additional help has not already been summoned. Otherwise, take further actions to stabilize the situation only if it is known what the full effects of those actions will be. While it may be necessary for a wider area of the transmission or distribution system to be shut down, this is most likely a decision the Supervisor should be asked to make, whenever time and conditions permit.
10.	Check affected area for leakage in buildings; over mains, services, manholes, and other openings. Also check other buildings in the vicinity.	With appropriate equipment, survey the affected area over mains, services, manholes, and other openings Check inside buildings at the location of the emergency, and check other buildings in the vicinity. DO NOT use an FI unit inside a building.
11.	Repair, shut off, or make safe any source of leaking gas.	If leakage is detected and situation allows, repair, shut off, or make safe any source of leaking gas. Note time made safe and notify dispatch/supervision, otherwise await assistance from other personnel. Wear flash gear, if appropriate
12.	Consult with fire, police, or other emergency personnel to determine cause and/or coordinate further response.	Work with other on-scene emergency personnel to coordinate and conduct ongoing response activities, including crowd control if necessary. Refer media inquiries to supervision or designated media contact
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Consider if it is advisable to block off the area or reroute public presence. Remember that natural gas may migrate below ground to another venting point. Ensure that anyone removed from the area stays away while the situation remains unsafe.

Eliminate ignition sources to the extent possible if gas is present in air.

Attempt to determine the status of ignition sources in the area, and if safe and appropriate to do so, eliminate these source(s) if gas is present in the air. If it is necessary to contact other utilities such as electric, phone, or cable, make the call(s) from outside the gaseous environment.



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7.		
and defined plant of the principles by the second section to the second second section of the section to the second section to the section to the second section to the second section to the second section to the second section to the second section to the second section to the second section to the second section to the section to the second section to the se	Ventilate the atmosphere if safe and appropriate to do so.	If gas is present in air, ventilate the atmosphere if safe and appropriate. This may include removing manhole covers, barholing, installing vent holes, opening windows and/or doors or other means. If the detected concentration of gas in air is above or within the explosive range [4-15 percent of natural gas), DO NOT ventilate the atmosphere until all ignition sources have been eliminated. Ventilating the atmosphere under such conditions will at some point bring the concentration into the flammable range. If the ignition sources are not removed prior to this, the environment could become explosive.
8.	Verify that the situation will not become unstable and effect existing gas pressure conditions.	Evaluate conditions for stability. If they appear to be unstable, and the instability may create a more hazardous situation, call for assistance if additional help has not already been summoned. Otherwise, take further actions to stabilize the situation only if it is known what the full effects of those actions will be. In the case of damaged underground facilities, this may involve a separate excavation outside of the gaseous atmosphere area, to facilitate flow restriction techniques. While it may be necessary for a wider area of the transmission or distribution system to be shut down, this is most likely a decision the Supervisor should be asked to make, whenever time and conditions permit.
9.	Check affected area for leakage in buildings; over mains, services, manholes, and other openings. Also check other buildings in the vicinity.	With appropriate equipment, survey the affected area over mains, services, manholes, and other openings. Pay particular attention to areas of recent excavation for signs of leakage. Check inside buildings at the location of the emergency, and check other buildings in the vicinity. Keep in mind the potential for multiple leaks in or near this area. Also an explosion in close proximity could effect gas facilities. DO NOT use an FI unit inside a building.
10.	Repair, shut off, or make safe any source of leaking gas.	If leakage is detected and situation allows, repair, shut off, or make safe any source of leaking gas. Note time made safe and notify dispatch/supervision, otherwise await assistance from other personnel. Wear flash gear, if appropriate
11.	Consult with fire, police, or other emergency personnel to determine cause and/or coordinate further response.	Work with other on-scene emergency personnel to coordinate and conduct ongoing response activities, including crowd control if necessary. Refer media inquiries to supervision, or designated media contact.
12.	If safe, conduct or assist with continuing response activities as the situation warrants.	Depending on the situation, additional response activities may be warranted. Perform or assist with such activities if safe and appropriate to do so.

Deleted: at or

Deleted: 15 percent

Deleted: the Upper Explosive Limit



PAGE 16 of 16

13. Complete or assist with completion of appropriate documentation.

Gather initial information and complete, or assist in the completion of documentation as required by the situation possibly including, but not limited to: Work Tickets, Customer Listings, Outage Reports, Public Accident Report/Claim Notice, Report of Damage to Company Property/Plant, and the "Natural Gas Incident Report". Refer to the "Internal Incident Reporting Matrix" to determine reporting requirements. (see Section 3.01 - Exhibit "B")



WARNING

Use extreme caution and follow all appropriate Company safety practices.

REFERENCES

DOT CFR Title 49, Part 192.615
— Emergency plans.
DOT CFR Title 49, Part 195.402(e)
— Emergency.

Action Plan

Action
Field Operations - Curb Box discovery
Identify and remediate curb boxes on inserted services
Review Applicable Standards & Procedures
Operation & Maintenance, Emergency Response
Determine who needs to review
Determine which S&P's apply
Suggest needed modifications – Immediate
Modify as appropriate
Suggest needed modifications – Prioritize
Note for future procedure development
Determine links needed to other procedures
Turn-on/Re-light Policy
Determine if CSP Group is proper group for review
Convey Need for review and development to CSP
Develop Vectren-wide Turn-on/Re-light Policy
Determine links needed to other procedures
Review Inspection Practices
Review documentation and auditing practices
Develop recommendations
T
Training/Communication
Determine if current method of training/communication is adequate
Determine needed face-to-face training for applicable S&P's
Develop training
Implement training
Determine needed "Alerts" for applicable S&P's and lessons learned Develop "Alerts"
Distribute "Alerts"
Distribute Alens
OQ Issues
Determine applicable CT's
Review existing method of qualification on those CT's Make modifications to CT modules to match S&P's
Determine if so qualification on a service it
Determine if re-qualification on new material needs to occur Convey changes to S&P's and CT's to proper individuals
Determine action to re-guelify and layers and the creek
Determine action to re-qualify employees on applicable CT's Re-qualify if needed
ice-quanty if needed
Quality Assurance
Determine process to ensure modified standards & procedures and
applicable training/qualification and communication is effective.
Implement quality assurance process
Develop list of recommended adjustments
Review recommended adjustments and propose appropriate changes.
Make changes
Convey changes to appropriate individuals
our of changes to appropriate marvatuals

	Evansville Fire Depart	ment - 550 .	SE 8th Street,	Evansville, IN	47713 812-435	6235	
A 82001 IN State	04/03/2004 Incident Date	. 11	-	0411186 Icident Number	00 Exposure		NFIRS -1 Basic
D Location	C San Wildland	Fice Module de	1				
B Location	L See wildiand	Fire Module for	Location			Census Tract	
1 Street address	3307 Number/Milepost	Prefix	LINCOLN Street or Highwa				AVE
,			EVANSVI	•			Street Type Suffix
	Apt/Suite/Room		City			IN 4771: State Zip Code	
	VANN AV Cross Street or Di	ections	• •				
C Incident Type			D-4				
		E	₁ Dates	& Times			s & Alarms
111 Building fire		. '	• . *	Date	Time	Local Op	
Aid Given or Rec	ceived		Dispatch	04/03/2004	11:19:59	3	1 32
D The Strong of the	Jorrea	[X	Arrival	04/03/2004	11:20:57	Shift or A platoon	larms District
N None	•	-	- Controlled	1		F ₃ Spec	ial Studies
			•		40.00.40	Local Op	
		ĮΣ	Last Unit	04/03/2004	19:28:12		
			·		· ·	Special Study ID#	Special Study Value
F Action Taken		D. Po	sources				
F Action Taken		Q1		-			sses & Values
11 Extinguish		Appar	this box and skip alus or Personnel	this section if an form is used.	LOSSES: Requi	red for all fires if kno	^{wn.} None
Primary Action Taken (1)			• • • • • • • • • • • • • • • • • • • •	tus Personnel	Property \$	i di non ures.	
30 Emergency medical se	ervices, other	Suppres	**	36	Contents \$		0 X 0 X
Additional Action Taken (2)		-	EMS 0	. 0	· ·		
86 Investigate			Other 10	. 10	PRE-INCIDEN	T VALUE:	
Additional Action Taken (3)	,	Check receiv	box if resource co ed resources.	unts include aide	Property \$		0 🗓
					Contents \$	·	0 🗵
Completed Modules	H ₁ Casualties	None	H ₃ H _{az}	ardous Mater	rials Release	ı Mixed l	Jse Property
X Fire-2	·D	Injuries	113		٠	1	
X Structure-3 X Civilian Fire Cas4	Fire Deaths Service 0	- 4	0 Special h	azmat actions n	equired or spill > 55	NN Not mixe	d use
X Fire Serv. Casualty-5	Civilian 2	5	gal.				
EMS-6 X HazMat-7							
Wildland Fire-8	H ₂ Detector	•		•			
X Apparatus-9 Personnel-10	2 Detector did not al	ert			*	1	
Arson-11	occupants			-	•		
J Property Use		<u> </u>			·		
	•				•	•	
419 1 or 2 family	dwelling						
		······································		<u> </u>			
M Authorization						·	
GMAIN		* * * * * * * * * * * * * * * * * * * *	, .	DC	SI IDDI	ESSION	04/03/2004
Officer in charge ID	Signature	-		Rank	Assignmen	•	04/03/2004 Date
	greg W main		•	*			
Check box if			•				
same as Officer in charge JSTOREY							
charge . [] JSTOREY Member making report	Signature	····		Rank		•	04/03/2004
ID .	Jesse O Storey	•		- MATERIA	Assignmen		Date
•	23000 C Olorby	•		•			. 1

Incident: 0411186-07

K ₁ Person/Entit	y Involved	······································				mordenc.	0411186-0
Local Option	Business nan	ne (if applicable)				Phone Number	
Check this box if same address as	MRS JOSIE	·		WILLIAMS		•	
incident location. Then skip the three	Mr., Ms., Mrs. First Name	•		Last Name			Suffix ,
duplicate address lines.	3208 N Number Prefix	11TH Street or Highway				AVE Street Type	Suffix
•		•	Evan	sville		·, ••	
	Post Office Box	Apt./Suite/Room	City			•	
	IN 47720-					•	
•	State Zip Code	•	•	•			
<u> </u>				-		•	
Check this box if same address as incident location. Then skip the three duplicate address	MS DAISY Mr., Ms., Mrs. First Name 3307	Lincoln		HARDY Last Name			Suffix
lines.	Number Prefix	LINCOLN Street or Highway	•			AVE Street Type	Suffix
	Post Office Box	Apt/Suite/Room	EVAN City	ISVILLE	•		Culix
	IN 47715- State Zip Code -					٠.	.•
					<u></u>		
L Remarks:							,
Local Option			. •				

INVESTIGATIVE REPORT

FIRE CAUSE DETERMINATION: ACCIDENTAL INVESTIGATOR: JESSE STOREY C.F.I. # 14-017

THIS INCIDENT WAS REPORTED TO 9-1-1 BY MULTIPLE CALLERS REPORTING THAT A HOUSE HAD EXPLODED. SEVERAL OF THE CALLERS REPORTED THAT VECTREN WAS ON THE SCENE WORKING AT THE TIME OF THE EXPLOSION. DUE TO REPORTED CIVILIAN INJURIES, A.M.R. WAS NOTIFIED OF POSSIBLE MASS CASUALTIES.

1A32 (DISTRICT CHIEF GREG MAIN ARRIVED ON THE SCENE AND INITIATED THE ICS (INCIDENT COMMAND SYSTEM). DISTRICT CHIEF MAIN'S REPORT AS WELL AS COMPANY OFFICER REPORTS WILL BE MADE ATTACHMENTS TO THIS REPORT.

K	82001 FDID	IN State	04/03/2004 Incident Date		116 Station	04111 Incident N		00 Exposure	☐ Defete	NFIRS - 1S Supplementa
Кз	Person	/Entity I	nvolved	VECT	•	,				
inc	eck this box if ne address as ident location, en skip these thre blicate address		MARK Mrs. First Name	KOESTER Street of highway	name if applic	able Mi	REXING Last Name		Phone Number	Suffix RD Street Type Suffix
		Post office	e box	. · Apt/Suite/Room	Evans	ville				
,	·	IN State	47720- Zip Code							
L 2	Remarks:									
CIVHAIN BASSON THE DIAM HOUSEN THE DESCRIPTION AND AND A PRILIT OF THE CONTRACT ILIAN INJUITAN INJUIT	MAN ALI MAN ALI MRIES. VED OF THE STATE OF THE FORM OF THE FORM OF THE FORM OF THE FORM OF THE FORM OF THE FORM OF THE FORM OF THE STATE OF THE STAT	R WAS CONTACTION THE SCENE CAPACITY OF THE SEVERE LE ACCOUNTS BY A CIVILIANT FOUTY FIRE SELF. I WAS HOME AND WAS WELL AS SION, INSTRUCT OF ACT THE EVANGE OF LIAISON FORT OF ACT AT THE EVANGE OF LIAISON FORT OF ACT AT THE EVANGE OF LIAISON FORT OF ACT AT THE EVANGE OF THE SEVER LAND I WENTE CANSFERRED I AND I WENTE CHANGE HEAT THE HOME. HE HAD GOI WAS CRITICAL HEAT IN THE HAD GOI WAS THE ACT THE HOME. HE HAD I ATTENDANGE OF LIAISON HEAT IN THE HOME. HE HAD I ATTENDANGE OF LIAISON HEAT IN THE HOME. HE HAD I ATTENDANGE OF LOCATION HEAT IN THE HOME. HE WAS THE ALL SHE BELIEVED TO LOCATION HEAT IN THE HOME. HE WAS THE ALL SHE BELIEVED TO LOCATION HEAT IN THE HAD I RETURN HEAT IN THE HOME. HE WAS THE ALL SHE BELIEVED TO LOCATION HEAT IN THE HAD I RETURN HEAT IN THE HAD IN THE	THIS INCID I MET WITH F SCENE SAN EMPLOYE BURNS AND SON THE E N IDENTIFIE FIGHTER K ALSO ADVI AS EXTRICATION THE E TOTHE E SON. THE FIGHTES WILL SON. THE FIGHTES WILL SON. THE FIGHTES WILL SON. THE FIGHTES WILL SON. THE FIGHTES WILL SON. THE FIGHTES WILL SON. THE FIGHTES WILL SON. THE FIGHTES WILL SON. THE FIGHTES WILL SON. THE FIGHTES WILL SON. THE FIGHTES TO TH	ENT INV HIC, (DI AFETY CO E HAD B E HA	COLVED STRICT OFFICER AS EEN AS EEN TRATION OF AVE ELL IZMAN TATA FEN AND MICHAEL AND HALL OF AT A BOOK AT	AN EXPLO CHIEF MAI SISTED OF ANSPORTE THE VECT INGTON A HAT THE M MALE SUB. D. OFFICE MASS THE EDICS FROM ARRIVED MAND AND HMENT TO ANT HAD BI AD SEVERI BUT 0745 H LARRY NE GET VICTIM RIES AND T MENT. HE TREATM (NEW WH. 3307 LINC THAT HE D RUCK THE FEMALE V 18 OR 9 PE BELIEVED NOSION EX HAVING T ADVISED IN ETECTIVE	SION WITH SION WITH SION WITH STATE SION WITH SION AMAR. IN THE STATE SION AMAR. IN THE PROPERTY OF LICH SION AT HAD HOLN AVEOUD NOT SION AMARCH THE PROPERTY OF LICH SION SION AMARCH THE PROPERTY OF LICH SION AMARCH THE PROPERTY OF LICH SION AMARCH THE PROPERTY OF LICH SION AMARCH THE PROPERTY OF LICH SION AMARCH THE PROPERTY OF LICH SION AMARCH THE SION AMARCH TH	TH MULTIPLE A63 WHO E DEBRIS OF MARY'S E.F. PLOYEE INC. RMATION CRAWLED OF ED BY OFF ED BY LT. THIS VICTION OF DEBRIS SCENE AND NSTRUCTOF PORT. HE PROCESS URAL GAS L WAS D ADVISED I MENTS AS SO BABILITY THE OM OF MARI IAPPENED. OM OF MARI I	F THE R. I LUDING DUT OF AT M R S OF INE. HIM DON AT K HE HIT RAL ION SED OUND HO	

MEMBERS OF MRS. WILLIAMS WHO WERE STANDING BY ACROSS THE STREET WERE ADVISED BY DETECTIVE NELSON THAT THE FEMALE VICTIM AT THE HOSPITAL WAS BELIEVED TO BE MS. HARDY, BUT A POSITIVE IDENTIFICATION HAD NOT BEEN MADE. DETECTIVE NELSON REQUESTED THE DAUGHTER OF MRS. WILLIAMS GO TO ST. MARY'S WITH AN E.P.D. OFFICER TO ATTEMPT AN I.D. WE WERE LATER ADVISED THAT BASED ON A MOLE AND A PIECE OF JEWELRY THAT THE VICTIM AT ST. MARY'S WAS JOSIE WILLIAMS. AFTER CONFIRMING THAT A THIRD VICTIM WAS IN THE STRUCTURAL DEBRIS AND ASSESSING THE STRUCTURAL STABILITY I.C. CALLED FOR HEAVY EQUIPMENT TO BE BROUGHT TO THE SCENE TO AID FIREFIGHTERS IN THE SEARCH AND RECOVERY OF THE THIRD VICTIM. UPON THE REQUEST OF E.P.D. OFFICIALS, A CADAVER SEARCH DOG WAS ALLOWED TO SNIFF THE SCENE IN AN ATTEMPT TO LOCATE THE VICTIM. THE K-9 ALERTED INSIDE THE BASEMENT AREA ALONG THE EAST SIDE OF THE STRUCTURE AND STAUB EXCAVATING WAS DIRECTED WHERE TO REMOVE DEBRIS. AT 1627 HRS. THE BODY WAS DISCOVERED AND REMOVED FROM THE DEBRIS AND THE CORONER WAS REQUESTED TO THE SCENE.

INFORMATION REGARDING THE CAUSATION:

AT ABOUT 0745 HRS A CREW FROM THE EVANSVILLE WATER DEPARTMENT WAS ATTEMPTING TO REPLACE A WATER METER AT 3307 LINCOLN AVE. MARKING WERE PRESENT IDENTIFYING BURIED UTILITY LINES. THE WATER LINE AND NATURAL GAS SERVICE LINE RAN PARALLEL ABOUT 2 FEET APART FROM EACH OTHER RUNNING FROM THE STREET TO THE STRUCTURE. THE WATER DEPARTMENT EMPLOYEES FOUND A LID FOR A "STOP BOX" (A CAST TUBULAR UNIT THAT WENT FROM NEAR GROUND LEVEL TO THE SHUT OFF VALVE) COVERED BY A COUPLE INCHES OF EARTH. USING A "KEY" (FORKED END PIPE DEVICE WITH A HANDLE) THE CREW TURNED THE VALVE TO STOP THE FLOW OF WATER AND QUICKLY LEARNED THAT THEY HAD TURNED A VALVE FOR THE NATURAL GAS AND NOT THE WATER. THE CREW, REALIZING THAT THE ODOR OF NATURAL GAS WAS PRESENT AND THAT THE WATER METER WAS STILL OPERATING, KNEW A NATURAL GAS LEAK WAS PRESENT. THE WATER CREW THEN CALLED VECTREN DIRECT AND NOTIFIED THEM OF THE LEAK. THE NEXT VERIFIABLE MARK ON THE TIME LINE IS 0939 HRS. WHERE THE WATER DEPARTMENT IS CALLED BY VECTREN TO HAVE A CREW RETURN TO THE SCENE AND RE-LOCATE THE WATER LINE PRIOR TO VECTREN EXCAVATING THE BROKEN NATURAL GAS LINE. THE LAST KNOWN VERIFIABLE TIME IS 1119 HRS WHEN CENTRAL DISPATCH (9-1-1) RECEIVES THE REPORT OF THE EXPLOSION.

DURING THE EMERGENCY OPERATIONS AT THE SCENE I MET WITH MR RICK SLAGLE, MANAGER, ENGINEERING SERVICES FOR VECTREN AND ADVISED HIM THAT I WANTED TO TAKE THE GAS SHUT OFF VALVE AND ANY ASSOCIATED PLASTIC TUBING FROM THE LEAK SITE AND PLACE IT IN OUR CUSTODY. THE EVIDENCE WAS COLLECTED, TAGGED AND PHOTOGRAPHED BY E.P.D. CRIME SCENE OFFICERS ASSISTING THIS INVESTIGATOR AND PLACED IN THEIR CUSTODY. I WENT TO THE CRIME SCENE OFFICE ON 04/13/04 AND TOOK CUSTODY OF THE EVIDENCE AND PLACED IT IN THE FIRE DEPARTMENT EVIDENCE LOCK-UP UNTIL REMOVING IT FOR DISPLAY TO THE CIVIL PARTIES AT THE FIRE ADMINISTRATION BUILDING ON 04/15/04. THIS MEETING WAS COORDINATED BY THIS INVESTIGATOR AND MR. MIKE REYNOLDS OF UNIFIED INVESTIGATIONS AND SCIENCES REPRESENTING STATE FARM INSURANCE INSURANCE CO FOR THE PROPERTY AT 3307 LINCOLN AVE. THE PARTIES WERE REQUIRED TO SIGN IN FOR ATTENDANCE AND WERE ALLOWED TO PHOTOGRAPH THE ITEMS. NO DESTRUCTIVE TESTING OR MANIPULATIONS WERE ALLOWED. THE EVIDENCE WAS THEN RETURNED TO FIRE DEPARTMENT LOCK-UP.

A SCENE EXAMINATION FOR THE INVOLVED PARTIES WAS SET FOR 04/16 04 @0900 HRS. AND AGAIN COORDINATED BY THIS INVESTIGATOR AND MIKE REYNOLDS. GAS PIPING WAS EXAMINED AS WELL AS DEBRIS INSIDE AND OUTSIDE OF THE STRUCTURE. AN EXCAVATION WAS DONE ALONG THE NORTH WALL FROM THE SURFACE TO THE DRAIN TILE AREA TO DETERMINE POSSIBILITIES OF ROUTES OF MIGRATION OF THE NATURAL GAS FROM THE TERMINATION POINT OF THE 1 1/4 PIPE TO THE INTERIOR OF THE STRUCTURE. EACH AGENCY REPRESENTED AT THE SCENE WAS ALLOWED TIME TO EXAMINE ANY PORTION OF THE STRUCTURE OR ITS CONTENTS AND ALLOWED TO PHOTOGRAPH OR VIDEO THE ENTIRE SCENE.

INFORMATION ON NATURAL GAS SERVICE LINE:

THIS WAS AN UPGRADED SERVICE LINE CONVERTED FROM LOW PRESSURE (15 P.S.I.) TO HIGH PRESSURE (55P.S.I.) DURING THIS CONVERSION A SMALL DIAMETER PLASTIC TUBING WAS RAN FROM THE GAS MAIN SUPPLY. THE TUBING WAS INSERTED THROUGH THE EXISTING 1 1/4 STEEL PIPING AND EXTENDED TOWARD THE RESIDENCE TO A POINT OF ABOUT 2 FEET FROM THE FOUNDATION, BASEMENT WALL. AT THIS 2 FOOT MARK, THE EXISTING 1 1/4

WHEN THE WATER DEPARTMENT CREW LOCATED THE "STOP BOX" WITH THE CAST LID COVERED WITH HARDENED DIRT, THEY MADE AN ASSUMPTION BASED ON THE LOCATE MARKS AND THE LOCATION OF THE "WATER METER PIT" THAT THEY HAD FOUND THE WATER SHUT OFF.

INDUSTRY ISSUES IDENTIFIED:

- 1. THE SHUT OFF VALVE ON THE ORIGINAL 1 1/4 GAS LINE SHOULD HAVE BEEN REMOVED TO ELIMINATE ANY POSSIBILITY THAT IT'S POSITION WOULD BE ALTERED. ANY MOVEMENT IN THIS VALVE WOULD CAUSE THE INSERTED TUBING TO BE FRACTURED, RESULTING IN GAS FLOW.
- 2. THE "STOP BOX" SHOULD HAVE BEEN REMOVED DURING THE CONVERSION. THIS REMOVAL WOULD HAVE MADE THE VALVE LOCATION IMPOSSIBLE WITHOUT EXCAVATION AND ELIMINATED MISIDENTIFICATION OF SERVICES.
- 3. THE LIKENESS BETWEEN THE SHUT OFF VALVES OF BOTH THE NATURAL GAS SERVICE AND THE WATER SUPPLY AID IN THE MISIDENTIFICATION OF SERVICES. IF THE VALVES REQUIRED A DIFFERENT DESIGN OF TOOL TO MANIPULATE, ONE SERVICE COULD NOT OPERATE THE VALVES OF THE OTHER.

CONCLUSION:

A SERIES OF EVENTS OCCURRED THAT ULTIMATELY LED TO THIS EXPLOSION.

- 1. A SHUT OFF "STOP BOX" WAS MISIDENTIFIED BY WATER DEPARTMENT EMPLOYEES.
- 2. A SHUT OFF VALVE WAS TURNED BY WATER DEPARTMENT EMPLOYEES CAUSING THE PLASTIC GAS SUPPLY TUBING TO FRACTURE.
- 3. THE EXISTING 1 1/4 STEEL PIPE PROVIDED AN UNOBSTRUCTED CHANNEL FOR GAS TO FLOW TO A DISTANCE 2 FEET IN FRONT OF THE STRUCTURE @ 3307 LINCOLN AVE.
- 4. THE GAS REPAIRMAN LIKELY SUFFERS OLFACTORY FATIGUE FROM EXPOSURE TO EXCESSIVE QUANTITY OF NATURAL GAS.
- 5. ODORIZING AGENT IS DILUTED INTO SOIL AND MASONARY SURFACE OF BASEMENT WALL PRIOR TO ENTERING THE STRUCTURE.
- 6. PERCENTAGE OF NATURAL GAS THAT MIGRATED INSIDE THE STRUCTURE REACHED EXPLOSIVE RANGE.
- 7. VECTREN REPAIRMEN ENTERS THE RESIDENCE AND DOES NOT DETECT ODOR OF NATURAL GAS BY SENSE OF SMELL.
- 8. VECTREN REPAIRMAN FAILS TO ELECTRONICALLY MONITOR THE ATMOSPHERE INSIDE THE STRUCTURE FOR THE PRESENCE OF NATURAL GAS.
- 9. VECTREN REPAIRMAN STRIKES A MATCH IN ATTEMPT TO RE-LIGHT PILOT ON WATER HEATER AND NATURAL GAS IGNITES CAUSING EXPLOSION.

Time/Date: 12:40 on 04/24/2004 by Jesse O Storey JSTOREY JSTOREY

			Evansville Fire Departr	nent -	550 SE 8th St	reet, Evansville, Il	N 47713	81	2-435-6235	
A	82001 FOID	IN State	04/03/2004 Incident Date		116 Station	0411186 Incident Number		00 Exposur	e	NFIRS - 2 Fire
В	Property D	etails				te Materials oducts		lone		
В1		ı whether o	Not Residential Initial living units in not all units		200 Person On-site materia	nal & home produc al (1)	cts, other		N X None	
B ₂	6.00 Number of build	ings involve	Buildings not invol	ved	On aite analysis	ı m				
Вз	Acres burned (o	utside fires)	X None Less than one acre		On-site materia	H (~)		•		
					On-site materia	il (3)				1
D	Ignition			E ₁	Cause of	f Ignition			E ₃ Human Fac	tors
D ₁	62 Heating roo Area of fire origin	om or are	ea, water heater area	25	Check box	f this is an exposure r Ial	eport.		1 Asleep	g to Ignition by alcohol or drugs
D2	64 Match Heat source			-					Unattended perso Possibly mentally Physically disable	n disabled d
Dз	65 Flammable flem first ignited	liquid/ga	as - uncontained Check box if fire spread was confined to object of origin	E2	Factors	Contributing	to Ignit	. 1	7 Age was a fa	
D4	11 Natural gas		Required only if item first ignited code is 00 or <70	l ·	eak or break contributing to ing	nition (1)	; . . :		Estimated age of person involved	
-				Factor	contributing to ing	nition (2)	•		1 Male 2 [Female
F1	X None #		ed in Ignition was not involved, skip to	F ₂	Equipme	nt Power		G	Fire Suppression	
	ment Involved	•		Equi	pment Power Source	×e			Wall collapse uppression factor (1)	[] None
Brane Mode	*X. ·			F ₃	Equipme	nt Portability		315	Significant fuel load fruppression factor (2)	om man-made
Seria Year	1#			P o k	ronable equipment ne person, is desig ocations, and requir	normally can be moved ned to be used in multip es no tools to install.	by Ne	Fire so	uppression factor (3)	
H1	Mobile Prop	perty In	volved	H ₂	Mobile Pr	operty Type &	Make	L	ocal Use	
	X None				propoerty type				Pre-Fire Plan	Available
					property make		·. . ·	So	ome of the information presented upon reports from other Arson report a	agencies: attached
•	· · · · · · · · · · · · · · · · · · ·								Police report a Coroner report Other reports	t attached
Mobile	propoerty model	* • *	·			Year		_		
Licens	e Plate Number	•	State VIN N	umber	• • · · · · · · · · · · · · · · · · · ·	· •		-		

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Evan	sville Fire Department - 550 SE 8th	Street, Evansville, IN 477	13 812-435-6235	
Structure Type If fire was in an enclosed building or a portable/mobile structure complete the rest of this form 1 X Enclosed building	Building Status 2 X Occupied and operating	13 Building Height Do not count the ROOF as a story 1 Total number of stories at or above grade 1 Total number of stories below grade	1,272 Total square feet OR BY Length in feet Width in feet	NFIRS - 3 Structure Fire
J1 Fire Origin 1	J3 Number of Stories Damag Count the ROOF as part of the highe Number of stories w/ minor (1 to 24% flame damage) Number of stories w/ minor (25 to 49% flame damage) Number of stories w/ minor (50 to 74% flame damage) Number of stories w/ minor (50 to 74% flame damage)	damage damage K1 6 to to tamage damage	Iterial Contributing Most To F Check if no flame spread OR same as material first ignited OR unable to determine Flammable liquid/gas - uncone or contributing most to flame spread Natural gas ope of material contributing ost to flame spread	• • • • • • • • • • • • • • • • • • •
Presence of Detectors (In area of the fire) UX Undetermined Detector Type	L3 Detector Power Supply L4 Detector Operation	L5 R	etector Effectiveness equired if dector operated. etector Effectiveness equired if dector failed to operate.	
			general decorations and appealed.	
M 1 Presence of Automatic E N X None Present M 2 Type of Automatic Exting Required if fire was within designate	juishment System	System Panure Reason	Required if system fa	Reason

Number of sprinkler heads operating

Evansville Fire Department - 550 SE 8th Street, Evansville, IN 47713 812-435-6235								
A 82001 IN 04/03/2004 FDID State Incident Date	116 0411186 Station Incident Number	00 Delete Exposure Change	NFIRS - 4 Civilian Fire Casualty					
First Name MI L	HARDIN ast Name	Suffix Ca	Casualty Number sualty Number					
Age or Date of Birth 89	1 X Civilian G Date & Tim	5 X D	everity eath					
Cause of Injury 9 🛛 Multiple causes	J Human Factors Contributing to Injury None Check all applicable boxes Asleep Unconscious Possibly impaired by alcoho Possibly impaired by other of Possibly mentally disabled Physically disabled Physically restrained Unattended person	None Enter up to the 43 Floor collapse Contributing factor (1)	ibuting to Injury wee contributing factors er					
7区 Unable to act 1区 M 2	Location at Time of Incident In area of origin & not involved General Location at Time of Injury Check ONE box. If undetermined, leave blank and skip to Section N. In area of origin	M 3 Story at Start of Inc. Complete ONLY if injury occurred. Story at START of incident M 4 Story Where Injury occurred, if different from M M 5 Specific Location at Complete ONLY if casualty No.	ed INSIDE below grade Occurred below grade I Time of Injury					
N Primary Apparent Symptom 0 X Smoke inhalation	O Primary Area of Body Injui	P Disposition Transported to emergency Remarks Local option HOMEOWNER, DEAD ON SC						

Evansville Fire Department - 550 SE 8th Street, Evansville, IN 47713 812-435-6235								
A 82001 IN 04/03/2 FDID State Incident Da		0411186 Incident Number	00 =	hange NFIRS - 4 Civilian Fire Casualty				
B Injured Person JOSIE First Name	WILLIAMS MI Last Name		Suffix	C Casualty Number				
OR Date of Birth	X White	F Affiliation 1 🔀 Civilian G Date & Time of Date of Injury 04/03/2004		_ Severity 5 ☑ Death				
Cause of Injury 9 🛛 Multiple causes	None Check all applicable 1 Asleep 2 Unconso 3 Possibly 4 Possibly 5 Physical 7 Physical	uting to Injury	None Ent	or contributed to				
Activity When Injured 7 🛛 Unable to act	M1 Location at Time 2 X Not in area & not M2 General Location Check ONE box. If und blank and skip to Section 1 X In area of origin	t involved n at Time of Injury etermined, leave n N.	Story where injury occurred, different from M. Specific Loca	ry occurred INSIDE below grade injury Occurred if below grade tion at Time of Injury asualty NOT in area of origin				
N Primary Apparent Symptom 1 X Burns and smoke inhalation	0	Area of Body Injured le body parts	Remarks LOCAL LADY WAS FOUND UP DEBRIS AND TRANSP	option				

	Fire Department - 550 SE 80	th Street, Evansville, IN	47713 812-435-623	35
A 82001 IN 04/03/2 FOID State Incident Da	* * * *	0411186 Incident Number	00	Delete NFIRS - 4 Civilian Fire Change Casualty
B Injured Person MARK First Name	REXING MI Last Name		Suffix	C Casualty Number Casualty Number
D Age or Date of Birth E1	Race	F Affiliation		ப Severity
	X) White	1 🔀 Civilian		H Severity 3 X Severe
OR		G Date & Time of	f Injury Midnight is 0000	
Date of Birth E 2	2 Ethnicity	Date of Injury	Time of Injury	
09/19/1972 [04/03/2004	11:19	
Compatibility				
Cause of Injury	J Human F Contribu	actors ting to Injury	K Factor	s Contributing to Injury
1 X Exposed to fire products	None Check all applicable b		☐ None E	nter up to three contributing factors
	4 Possibly	impaired by alcohol impaired by other drug		(1) ctor contributed to
	5 Possibly 6 Physically 7 Physically	mentally disabled y disabled y restrained ed person	Contributing factor (
Activity When Injured 7 X Unable to act	M1 Location at Time		141 3 ·	rt of Incident njury occurred INSIDE nt Delow grade
	M2 General Location	at time of Injury	Story Where injury occurre different from M	Injury Occurred
	blank and skip to Section 1 X In area of origin	N.	M Specific Loc	cation at Time of Injury casualty NOT in area of origin
			Specific location at time	of injury
N Primary Apparent Symptom	O Primary	Area of Body Injured	P Disposition	
1 X Burns and smoke inhalation	9 🔀 Multiple	body parts	X Transported to en	nergency care facility
		·		
			Remarks Loc	cal option
			LIFE FLIGHT TO IND EMPLOYEE	IANAPOLIS, VECTREN
			• • • •	

Evansville Fire Department - 550 SE 8th Street, Evansville, IN 47713 NFIRS - 4 Delete 82001 04/03/2004 IN 116 0411186 00 Civilian Fire FOID Incident Date Change State Station Incident Number Exposure Casualty **Injured Person** Casualty В Number **MARVIN MAXBERRY** First Name Last.Name Suffix Casualty Number Affiliation Age or Date of Birth Race Severity H Months (for infants) 1 X White 1 X Civilian 2 X Moderate Date & Time of Injury Midnight is 0000 G **Ethnicity** E₂ **Date of Birth** Date of Injury Time of Injury 04/03/2004 11:19 Cause of Injury **Human Factors** Factors Contributing to Injury K Contributing to Injury 1 X Exposed to fire products Enter up to three contributing factors ■ None ■ None Check all applicable boxes Asleep 22 Exits blocked by smoke Unconscious Contributing factor (1) Possibly impaired by alcohol Possibly impaired by other drug Contributing factor (2) Possibly mentally disabled Physically disabled Physically restrained Contributing factor (3) Unattended person M1 Location at Time of Incident **Activity When Injured** Story at Start of Incident Мз Complete ONLY if injury occurred INSIDE 7 X Unable to act 2 X Not in area & not involved Story at START of incident Delow grade Story Where Injury Occurred M 4 M₂ General Location at Time of Injury Story where injury occurred, if different from Ma below grade Check ONE box. If undetermined, leave blank and skip to Section N. **Specific Location at Time of Injury** M 5 3 X Outside, not in area of origin Complete ONLY if casualty NOT in area of origin 00 Other Specific location at time of injury **Primary Apparent Symptom** Primary Area of Body Injured D Disposition 0 X Smoke inhalation 8 X Internal Transported to emergency care facility Local eption Remarks EXPOSURE AT 3303 LINCOLN, TREATED ON SCENE, REFUSED TRANSPORT

812-435-6235

Evan	sville Fire Depa	rtment - 550 SE 8	th Street, Evansville, IN	47713 812-435-62	35
The second secon	/03/2004 dent Date	116 Station	0411186 Incident Number	00 [Expasure [Defete NFIRS - 4 Civilian Fire Casualty
B Injured Person VIRGINIA First Name	a contract of the contract of	AXBERRY Name		Suffix	C Casualty Number Casualty Number
D Age or Date of Birth 80	E1 Race 1 White E2 Ethnic	ity	F Affiliation 1 X Civilian G Date & Time of Date of Injury 04/03/2004	of Injury Midnight is 0000 Time of Injury 11:19	H Severity 2 X Moderate
Cause of Injury 1 X Exposed to fire produc	ts	Check all applicable by the Ch	noting to Injury	X None Contributing factor	(2)
L Activity When Injured 7 ☑ Unable to act	²⊠ M M 2 ^G 6 U⊠ U	ocation at Time Not in area & not eneral Location theck ONE box. If undellank and skip to Section	involved at Time of Injury termined, leave	Story at START of incide M 4 Story Wher Story where injury occurr different from M M 5 Specific Lo	e Injury Occurred ed, if below grade cation at Time of Injury if casualty NOT in area of origin
N Primary Apparent Symp	otom	8 🗷 Internal	Area of Body Injured	Transported to e	mergency care facility cal option T OF 3303 LINCOLN; IE, REFUSED

Evansville Fire Department - 550 SE 8th Street, Evansville, IN 47713 812-435-6235							
FDID State Incider	03/2004 116 nt Date Station	0411186 Incident Number	00 Defete NFIRS - 4 Civilian Fire Casualty				
B Injured Person DAVE First Name	ELLINGTON MI Last Name		C Casualty Number Suffix Casualty Number				
35 Months (for infants) Age OR	E 1 Race 1 White E 2 Ethnicity	Date of injury	H Severity 2 X Moderate Injury Midnight is 0000 Time of Injury 11:22				
Cause of Injury 9 🛛 Multiple causes	Check all applicable 1	uting to Injury	Factors Contributing to Injury None Enter up to three contributing factors Contributing factor (1) Contributing factor (2) Contributing factor (3)				
Activity When Injured 2 X Rescue attempt	M 1 Location at Time 2 X Not in area & no M 2 General Locatio Check ONE box. If und blank and skip to Section 1 X In area of origin	t involved n at Time of Injury letermined, leave	Story at Start of Incident Complete ONLY if injury occurred INSIDE Story at START of incident				
N Primary Apparent Sympt	om O Primary 8 🗓 Interna	Area of Body Injured	P Disposition X Transported to emergency care facility Remarks Local option SMOKE INHALATION AND NAIL PUNCTURE TO THE FOOT.				

A 82001 IN 04/0 FOID State Incident	0/0004		· · · · · · · · · · · · · · · · · · ·	
		116 0411186 Station Incident Number	00 =	Delete NFIRS - 4 Civilian Fire Change Casualty
B Injured Person CHRIS First Name	SCHAEFI MI Last Name	FER	Suffix	C Casualty Number Casualty Number
D Age or Date of Birth E	Race	F Affiliation		H Severity
25 Months (for infants) Age	1 🔀 White	1 🔀 Civilian		2X Moderate
OR Date of Birth	E ₂ Ethnicity	G Date & Time Date of Injury 04/03/2004	of Injury Midnight is 0000 Time of Injury 11:25	
Cause of Injury	J	luman Factors contributing to Injury	K Factor	rs Contributing to Injury
1 X Exposed to fire products	1 2 3 4 5 5 6 7 F	e applicable boxes Asleep Inconscious Possibly impaired by alcohol Possibly impaired by other de Possibly mentally disabled Physically disabled Physically restrained Inattended person	Contributing factor	(2)
Activity When Injured 2 X Rescue attempt	2 X Not in and M 2 General L Check ONE in blank and ski	at Time of Incident ea & not involved cocation at Time of Injury pox. If undetermined, leave p to Section N. not in area of origin	Story at START of incider Story at START of incider M 4 Story Where Story where injury occurre different from M Specific Loc Complete ONLY if	e Injury Occurred ed. if
Primary Apparent Sympto	m O P	rimary Area of Body Injur	P Disposition	
1 X Burns only: thermal	1 🗷	Head	Transported to en	nergency care facility
			TREATED ON SCEN	cal option E BY FF BILL HESS, DRT. PULLED JOSIE BRIS, BURNS TO THE

	varisville Fire De	parunent - 550	SE 8th Stre	et, Evansville, IN	47713 812	-435-6235		
A 8200.1 IN FDIO State	04/03/2004 Incident Date	-	16 ation	0411186 Incident Number	00 Exposure	Haz No	Delete Change	NFIRS - 7 HazMat
B HazMat ID 0 UN Number	21 DOT Hazard Classification	CAS Registration No	mber	Chemic Nan	al Natural	gas		
C1 Container Type C 00 Container type, other C Complete the remainder	Capacity: by vol 3 Units: Cap 15 X Cubi	acity		99,999 Amount released: 12 Units: Released: 15 X Cubic	feet	int E	1 Physica When Re 3 X Gas 2 Release Air and 9	leased d Into
of this form only for the first hazardous material involved in this incident. F1 Released From: Check all applicable boxes below grade Inside/on structure Story of release X Outside of structure	1 X Urban G1 Area Af	Center -	G3 Est	Enter Measurer Measurer of the Evacuated Control of the Evacuated Contr	Primary 34 Invoice Additional 14 Haz Additional I If fi	Enter up to the lifty of their age Action Taken (1 estigate al Action Taken comat leak) (2) ontrol and conf (3) sion is involv occurred fire	ed with a
J Cause of Release 2 [X] Unintentional release			r up to three co t failure, leal ng To Release (ng To Release (1)	Factor or i	Factors At er up to three fa mitigation of the mpediment (1) mpediment (1)	fecting Miti ctors or Impedimer incident	gation its that affected
M Equipment Involved 000 Other equipment involved Equipment involved in release	None	N Mobile Relea		/Involved In 図		lazMat Dis	sposition	ce present
Brand Model Serial Number Year		Mobile property m Model License Plate Nun		Year Sta		lazMat Civ Deaths	ilian Casua Injuries	
•		DOT Number/ICC	Number		i	•		

A	82001 IN FDIO State	04/03/2 Incident Da		116 Station		11186 dent Number	00 Delete Exposure Change	NFIRS - 9 Apparatus or Resources
В	Apparatus or	1	Dates and Time	<u> </u>	Sent	Number	Use	Actions Taken
	Resource Use codes listed below		Check if same date a	is alarm date		of People	Check ONE box for each apparatus to Indicate its main use at the incident.	
1	ID 1A1	Dispatch [X 04/03/2004	1400				
1-	· .	1 -	X 04/03/2004	1400		1	☑ Other	
	Type 92	}	X 04/03/2004	1927				
2	ID 1A20	Dispatch [· ·	1212		4	☑ Other	
	Type 92	1	XI 04/03/2004 XI 04/03/2004	1212 1928		1	₩ Other	
_	ID 1A32	Dispatch [1119	· · · · · · · · · · · · · · · · · · ·			
1-		Arrival	7	1110		1	☑ Other	
	Type 92	•	X 04/03/2004	1711				
4	ID 1A33	Dispatch [1141			1771 044	
	Type 92	1	X 04/03/2004	1141		1	☑ Other	
<u> </u>			X 04/03/2004	1704				
5	ID 1A4	· -	X 04/03/2004 X 04/03/2004	1120 1120		1	⊠ Other	
·	Туре 92		X 04/03/2004	1149	٠.		_	
6	10 1A41		X 04/03/2004	1259				
	•		X 04/03/2004	1259		, 1	☑ Other	
<u> </u>	Туре 92	Clear [X 04/03/2004	1452				
7	ID 1A6		X 04/03/2004	1235		1	⊠ Other	
· .	Туре 92		X 04/03/2004	1235 1928	ت ا	1	M Other	
		Clear Dispatch	X 04/03/2004 X 04/03/2004	1926				· .
8	ID 1A61		X 04/03/2004	1225		1	■ Other	
	Type 92	1. ~	X 04/03/2004	1826		·		
9	ID 1A62	Dispatch [X 04/03/2004	1438				
	•	Arrival [<u></u>			1	☑ Other	
<u> </u>	Туре 92		04/03/2004	1928				
10	ID 1A63	Dispatch [_	1120 1125		1	☑ Other	
	Туре 92	1 =	X 04/03/2004 X 04/03/2004	1840				
11	ID 1E10	Dispatch [1239			· · · · · · · · · · · · · · · · · · ·	
		Arrival	1			4	■ Suppression	
	Гуре 11	Clear [X 04/03/2004	1655				
12	ID 1E14	Dispatch [04/03/2004	1119			[7]	
ļ	Гуре 11	Arrival []	4550		4	Suppression	·
		Clear	-	1559				
13	ID 1E15	Dispatch [X 04/03/2004 X 04/03/2004	1136 1141		4	■ Suppression	
1	Гуре 11	Clear	-	1458				
14	ID 1E4	Dispatch [1119				
		Arrival	<u> </u>			4	■ Suppression	
	Гуре 11	Clear [04/03/2004	1658				
Tv	pe of Apparatus o	r Resource	Aircraft			10 - 4	12 Danus	
l .	pe of Apparatus o and Fire Suppression	· ivoqualce		: fixed wing t	Janker		& Rescue scue unit	
	l Engine		42 Helitan	ker		72 Urt	oan search & rescue unit	More apparatus?
13	2 Truck or aerial	*	43 Helicop			-	th angle rescue unit	Use additional sheets.
t .	3 Quint 4 Tanker & pumper com	bination	40 Aircraft	, outer		75 BL: 76 AL:	•	
19	Brush truck	•	Marine Equi	pment			dical and rescue unit, other	
	ARF (Aircraft Rescue			at with pump		Other		
	Ground fire suppressi	ory outer	52 Boat, no 50 Marine	o pump apparațus, oi	ther			NN None
Hea	vy Ground Equipment		•, •••••		-		ief officer car zMat unit	UU Undétermined
	Dozer or plow	•	Support Equ	. ""			emat unit De 1 hand crew	
	? Tractor I Tanker or tender			ng apparatus	support	95 Тур	e 2 hand crew	
	Heavy equipment, oth	er	62 Light ar 60 Support	id air unit t apparatus, c	other		vately owned vehicle er apparatus/resource	

A	82001 FDID	IN State	04/03/2004 Incident Date	116 Station		11186 Jent Number	00 Delete Exposure Change	NFIRS - 9 Apparatus or Resources
В	Apparatu Resource Use codes listed b	•	Dates and Tie Check if same d	nes ale as alarm date	Sent X	Number of People	Use Check ONE box for each apparatus to indicate its main use at the incident.	Actions Taken
15	ID 1E6 Type 11		Dispatch X 04/03/2004 Arrival ☐ Clear X 04/03/2004			4	☑ Suppression	
	ID 1L1 Type 12		Dispatch X 04/03/2004 Arrival X 04/03/2004 Clear X 04/03/2004	1133		4	Suppression	
	ID 1Q16 Type 13		Dispatch X 04/03/2004 Arrival X 04/03/2004 Clear X 04/03/2004	1122		4	X Suppression	
	ID 1Q9 Type 13		Dispatch X 04/03/2004 Arrival X 04/03/2004 Clear X 04/03/2004	1129		4	∑ Suppression	
19	ID 1R1 ⊽pe 71		Dispatch X 04/03/2004 Arrival	,		2	■ Suppression ■ S	
20	ID 1R3 ype 71		Dispatch X 04/03/2004 Arrival X 04/03/2004 Clear X 04/03/2004	1327		2	☑ Suppression	

Type of Apparatus or Resource Medical & Rescue **Ground Fire Suppression** 41 Aircraft: fixed wing tanker 71 Rescue unit 42 Helitanker More apparatus? 11 Engine 72 Urban search & rescue unit 43 Helicopter Use additional 12 Truck or aerial 73 High angle rescue unit 40 Aircraft, other sheets. 13 Quint 75 BLS unit 14 Tanker & pumper combination 76 ALS unit Marine Equipment 16 Brush truck 70 Medical and rescue unit, other 17 ARF (Aircraft Rescue and Firefighting) 51 Fire boat with pump Other 10 Ground fire suppression, other 52 Boat, no pump 91 Mobile command post NN None 50 Marine apparatus, other **Heavy Ground Equipment** 92 Chief officer car **UU Undetermined** 93 HazMat unit 21 Dozer or plow Support Equipment 94 Type 1 hand crew 22 Tractor 61 Breathing apparatus support 95 Type 2 hand crew 24 Tanker or tender 62 Light and air unit 99 Privately owned vehicle 20 Heavy equipment, other 60 Support apparatus, other 00 Other apparatus/resource

Post Incident Natural Gas Reading at 3307 Lincoln Av.

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7		46 LEL		55 LEL		35 LEL	ŀ	38 LEL	1	00 E		34 LEL	
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Test holes 19 through 28 were not accesable after the 2:45pm test due to the excuvation of debris from the building obstructing

access.